

2014/15 ANNUAL REPORT
HARBOR TOXICS TMDL COORDINATED COMPLIANCE MONITORING AND
REPORTING
GREATER LOS ANGELES AND LONG BEACH HARBOR WATERS

Prepared for

California Department of Transportation

Cities of Bellflower, Lakewood, Long Beach, Los Angeles, Paramount, Rancho Palos Verdes, Rolling Hills, Rolling Hills Estates, and Signal Hill

Los Angeles County

Los Angeles County Flood Control District

Ports of Long Beach and Los Angeles

Kinder Morgan Liquid Terminals, LLC*

Metropolitan Stevedore Company*

Petro-Diamond Inc.*

Tesoro Refining & Marketing Company LLC*

Prepared by

Anchor QEA, LLC

27201 Puerta Real, Suite 350

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December 2015

* The Industrial Individual Permit Holders listed are not a part of the Greater Harbor Waters Regional Monitoring Coalition; however, they contribute to the monitoring and reporting activities documented herein to comply with applicable elements of their permit requirements

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LIST OF ACRONYMS AND ABBREVIATIONS

| | |
|-----------------------------|--|
| µg | microgram |
| Basin Plan | Water Quality Control Plan Los Angeles Region |
| Bight '13 | Southern California Bight Regional Monitoring Program (2013) |
| BRI | Benthic Response Index |
| CA LRM | California Logistic Regression Model |
| Cal EPA | California Environmental Protection Agency |
| CCMRP | Coordinated Compliance Monitoring and Reporting Plan |
| CIA | Contaminant Impact Assessment |
| CSI | Chemical Score Index |
| CTR | California Toxics Rule |
| CTR criteria (aquatic life) | CTR Criteria for the Protection of Aquatic Life – Saltwater Chronic |
| CTR criteria (human health) | CTR Criteria for the Protection of Human Health for consumption of organisms only |
| CWA | Clean Water Act |
| DO | dissolved oxygen |
| DQO | data quality objective |
| EDD | electronic data deliverable |
| ERL | effects range low |
| FCG | fish contamination goal |
| g | gram |
| Harbor Toxics TMDL | <i>Total Maximum Daily Load for Toxic Pollutants in Dominguez Channel and Greater Los Angeles and Long Beach Harbor Waters</i> |
| IBI | Index of Biotic Integrity |
| L | liter |
| LA | load allocation |
| LARE | Los Angeles River Estuary |
| LOE | line of evidence |

| | |
|---------|---|
| MDL | method detection limit |
| MLOE | multiple lines of evidence |
| mm | millimeter |
| NOAA | National Oceanic and Atmospheric Administration |
| NWS | National Weather Service |
| OEHHA | Office of Environmental Health Hazard Assessment |
| PCB | polychlorinated biphenyl |
| pH | hydrogen ion potential |
| PMAX | maximum probability model |
| ppt | parts per thousand |
| PQAPP | Programmatic Quality Assurance Project Plan |
| QA | quality assurance |
| QC | quality control |
| RBI | Relative Benthic Index |
| RIVPACS | River Invertebrate Prediction and Classification System |
| RMC | Regional Monitoring Coalition |
| RPD | relative percent difference |
| RWQCB | Los Angeles Regional Water Quality Control Board |
| SAP | Sampling and Analysis Plan |
| SCCWRP | Southern California Coastal Water Research Project |
| SQO | Sediment Quality Objective |
| SQV | sediment quality value |
| SWAMP | California State Surface Water Ambient Monitoring Program |
| SWRCB | State Water Resources Control Board |
| TMDL | total maximum daily load |
| TSS | total suspended solids |
| WGS84 | World Geodetic System 1984 |
| WLA | waste load allocation |

1 INTRODUCTION

The *Total Maximum Daily Load for Toxic Pollutants in Dominguez Channel and Greater Los Angeles and Long Beach Harbor Waters* (Harbor Toxics TMDL) became effective on March 23, 2012. The requirements of the Harbor Toxics TMDL are specified in Attachment A to Resolution No. R11-008, Amendment to the Water Quality Control Plan – Los Angeles Region (Regional Water Quality Control Board [RWQCB] 2011). The Harbor Toxics TMDL was promulgated to protect and restore fish tissue, water, and sediment quality in Dominguez Channel and Greater Los Angeles and Long Beach Harbor Waters (including Consolidated Slip; Greater Harbor Waters).

1.1 Background

Section 303 (d)(1)(A) of the Clean Water Act (CWA) requires states to identify waterbodies within its boundaries for which effluent limitations are not stringent enough to implement water quality standards applicable to those waters. This list of impaired waterbodies is commonly referred to as the Section 303(d) list. Subsequently, in accordance with Section 303 (d)(1)(C), states are required to develop a total maximum daily load (TMDL) for pollutants not meeting the effluent limitations and at a level necessary to implement the established water quality standards. A TMDL represents the maximum amount of a pollutant a waterbody can receive and still meet water quality standards.

The 2010 California 303 (d) List of Water Quality Limited Segments identified Los Angeles and Long Beach Inner and Outer Harbors, Inner Cabrillo Beach, Cabrillo Marina, Consolidated Slip, Fish Harbor, Eastern San Pedro Bay, and Los Angeles River Estuary (LARE) as water segments where standards are not met and a TMDL is required.. One or more pollutants or endpoints for each waterbody were listed as the cause of impairment for these waterbodies that comprise the Greater Harbor Waters (Table 1).

1.2 Harbor Toxics Total Maximum Daily Load

To protect marine life and minimize human health risks due to the consumption of fish, the Harbor Toxics TMDL includes annual contaminant limits in surface sediment, stormwater effluent, and fish tissues in the Greater Harbor Waters. These limits are defined as target loads or concentrations for compliance with the Harbor Toxics TMDL. The intent of a TMDL is to:

1) determine the quantity of contaminants a system can assimilate while protecting water quality; 2) determine all inputs of contaminants to the system and linkages of inputs to impairments; and 3) allocate reductions to each source to bring the waterbody into compliance with established criteria for the protection of beneficial uses related to water quality.

1.2.1 Numeric Targets

Applicable water quality objectives for the Harbor Toxics TMDL are narrative objectives for chemical constituents, bioaccumulation, and toxicity in the Water Quality Control Plan Los Angeles Region (Basin Plan; RWQCB 1994) and the numeric water quality criteria promulgated in 40 CFR section 131.38 (the California Toxics Rule [CTR]). In addition, sediment condition objectives were determined using sediment quality guidelines and the State Water Quality Control Plan for Enclosed Bays and Estuaries – Part 1 Sediment Quality (Sediment Quality Objectives [SQO] Part 1; SWRCB-Cal EPA 2009).

Water targets were determined by the Basin Plan and the CTR.

Sediment targets were determined by the narrative standards of the Basin Plan, the SQO, and sediment quality guidelines (e.g., effects range low [ERL]) recommend in Long et al. (1998) and MacDonald et al. (2000). The Harbor Toxics TMDL anticipates that revisions to specific sediment quality targets may be determined by development of site-specific sediment quality values (SQVs).

Fish tissue targets were determined from Fish Contaminant Goals and Advisory Tissue Levels for Common Contaminants in California Sport Fish: chlordane, DDTs, dieldrin, methylmercury, polychlorinated biphenyls (PCBs), selenium, and toxaphene, developed by the Office of Environmental Health Hazard Assessment (OEHHA; 2008) to assist agencies in developing fish tissue-based criteria for pollution mitigation or elimination and to protect humans from consumption of contaminated fish.

1.2.2 Interim and Final Waste Load Allocations and Load Allocations

Final waste load allocations (WLAs) are assigned to stormwater dischargers (i.e., MS4, California Department of Transportation, general construction, and general industrial dischargers) and

other National Pollutant Discharge Elimination System dischargers. Final load allocations (LAs) are assigned to direct atmospheric deposition and bedded sediments in both wet and dry weather. Mass-based allocations have been set where sufficient data were available to calculate mass-based allocations; otherwise, concentration-based allocations have been set.

The following interim and final allocations are listed in Attachment A to Resolution No. R11-008, Amendment to the Water Quality Control Plan – Los Angeles Region (RWQCB 2011):

- Interim concentration-based allocation for sediment in Dominguez Channel Estuary and Greater Harbor Waters
- Final concentration-based WLAs for receiving water in Dominguez Channel Estuary and Greater Harbor Waters
- Final mass-based WLAs and LAs for Dominguez Channel Estuary and Greater Harbor Waters
- Final concentration-based sediment WLAs for metals in Dominguez Channel Estuary, Consolidated Slip, and Fish Harbor
- Final mass-based WLAs and LAs for bioaccumulative compounds in fish tissue for Dominguez Channel Estuary and Greater Harbor Waters

1.3 Compliance Measures

The Harbor Toxics TMDL set WLAs in the Greater Harbor waterbodies to limit sediment-bound pollutant loadings from upstream and on-land sources. In addition, the Harbor Toxics TMDL set LAs in the Greater Harbor waterbodies to limit concentrations in bedded sediments believed to impact marine benthos (direct effects) and fish tissue (indirect effects).

Water quality currently meets water quality objectives for beneficial use. However, monitoring is required to confirm no degradation is occurring. Water column concentrations will be compared to CTR criteria for both the Protection of Aquatic Life – Saltwater Chronic and the Protection of Human Health for consumption of organisms only.

Ultimately, compliance with sediments may be demonstrated via any of the following three means:

- Final sediment allocations, as presented in Attachment A to Resolution No. R11-008, Amendment to the Water Quality Control Plan – Los Angeles Region (RWQCB 2011), are met.
- The qualitative sediment condition of Unimpacted or Likely Unimpacted, via the interpretation and integration of multiple lines of evidence (MLOE) as defined in the SQO Part 1, is met, with the exception of chromium, which is not included in the SQO Part 1.
- Sediment numeric targets are met in bedded sediments over a 3-year averaging period.

Ultimately, compliance with fish tissues may be demonstrated via any of the following four means:

- Fish tissue targets are met in species resident to the Harbor Toxics TMDL waterbodies.
- Final sediment allocations, as presented in Attachment A to Resolution No. R11-008, Amendment to the Water Quality Control Plan – Los Angeles Region (RWQCB 2011), are met.
- Sediment numeric targets to protect fish tissue are met in bed sediment over a 3-year averaging period.
- The sediment quality condition protective of fish tissue is achieved per the Statewide Enclosed Bays and Estuaries Plan, as amended to address contaminants in resident finfish and wildlife.

1.4 Coordinated Compliance and Monitoring Reporting Plan

The Harbor Toxics TMDL requires monitoring activities by the responsible parties in the following three waterbody areas:

- Dominguez Channel, Torrance Lateral, and Dominguez Channel Estuary
- Greater Los Angeles and Long Beach Harbor Waters (including Consolidated Slip)
- Los Angeles River and San Gabriel River

The CCMRP outlines the monitoring activities to be conducted by the cooperating parties for the Greater Harbor Waters. To be consistent with and potentially collaborate with other regional monitoring programs, the sample collection methods prescribed within this CCMRP are to be conducted in accordance with methods established for use during the Southern California Coastal Water Research Project's (SCCWRP) Southern California Bight Regional Monitoring Program or the California State Surface Water Ambient Monitoring Program (SWAMP). Compliance monitoring and reporting activities must also be conducted in accordance with the Programmatic Quality Assurance Project Plan (PQAPP) developed for the Harbor Waters Toxics TMDL to ensure usability and provide benefit to other Harbor Waters Toxics TMDL-related programs and studies. The Final CCMRP was approved on June 6, 2014 (Unger 2014).

1.5 Programmatic Quality Assurance Project Plan

The PQAPP (Anchor QEA 2013) was developed to guide the collection of high quality data as part of compliance monitoring and special studies required by and in support of the Harbor Toxics TMDL. The PQAPP includes the following key elements that focus on analytical methods and data generated under this program:

- **Program Management.** This section identifies the specific roles and responsibilities of data collectors and data managers and describes the process through which field and analytical data will be processed, reduced, and stored in an EQuIS database by the managing consultant.
- **Field Sampling Data Quality Objectives.** This section includes detailed information on field collection requirements including sample processing, sample handling, sample identification, sample custody and shipping requirements, field quality control (QC) sample requirements with associated performance criteria, field records, and field electronic data deliverable (EDD) requirements.
- **Laboratory Data Quality Objectives.** This section includes detailed information on analytical methods, analyte lists and reporting limits, laboratory QC sample requirements with associated performance criteria and corrective actions, laboratory record requirements, and laboratory EDD requirements.
- **Data Review, Verification, and Validation.** This section outlines the procedures used to meet the project data quality objectives.

The PQAPP was designed to be programmatic in nature to address data quality needs for both compliance monitoring and other Harbor Toxics TMDL-related sampling and analysis activities over the next 5 years. The benefit of the programmatic approach outlined in the PQAPP is that there will be a uniform data collection and management program for all Harbor Toxics TMDL-related studies that provides high quality data and efficiencies due to standardization of sample collection, nomenclature, analysis, data review/validation, processing, storage, management, and seamless data export to the Regional Monitoring Coalition (RMC) and State databases, regardless of study type or contractors performing the work.

This CCMRP has been designed accordingly to incorporate relevant PQAPP elements in addition to supplemental information specific to the compliance monitoring program in order to develop a single, all-inclusive, monitoring plan compatible with SWAMP Quality Assurance Project Plan requirements.

2 METHODS

Methods were conducted in accordance with the Coordinated Compliance Monitoring and Reporting Plan (CCMRP) and accompanying matrix-specific Sampling and Analysis Plans (SAPs). Event-specific methods not incorporated into the CCMRP or SAPs are presented below. Deviations from the CCMRP and the SAP are presented in Section 3.4.

2.1 Station Locations

Station locations for both water quality and fish tissue were predetermined and vessel positioning was accomplished using an on-vessel differential GPS with an accuracy of plus or minus 10 feet (3 meters). The coordinates of the actual sampling locations were reported in latitude and longitude in decimal degrees on the field sample forms and were within 15 meters of the proposed sampling station. Positions were relative to the World Geodetic System 1984 (WGS84). Samples were labeled accordingly and as detailed in the CCMRP (Anchor QEA 2014a). The station identification codes were consistent with the station numbers listed in the Sediment Chemistry Monitoring Requirements table of the Harbor Toxics TMDL Basin Plan Amendment (RWQCB 2011).

2.2 Water

Water quality monitoring consisted of in situ measurements and collection of water samples for chemical analyses. Water samples were collected four times representing two wet weather events and two dry weather events.

- Summer 2014: This dry weather sampling event occurred across 3 days: September 26, 28, and 30, 2014. It was conducted after a minimum 72-hour antecedent period of dry weather, as required.
- Fall 2014: This wet weather sampling event occurred on November 2, 2014. It was held within 24 hours after a storm event to constitute the first of two wet weather sampling events. The qualifying storm occurred from October 31 to November 1 and was based on forecasting from National Oceanic and Atmospheric Administration's (NOAA's) National Weather Service (NWS). A total rainfall of 5.26 inches was recorded for a 24-hour period ending at 12 p.m., November 1.
- Winter 2015: This wet weather sampling event occurred on February 24, 2015. It was held within 24 hours after a storm event to constitute the second of two wet weather

sampling events. The qualifying storm occurred February 23 and was based on forecasting from NOAA's NWS. A total rainfall of 5.96 inches was recorded for a 24-hour period ending at 9 p.m., February 23.

- Summer 2015: This dry weather sampling event occurred on July 7, 2015. It was conducted after a minimum 72-hour antecedent period of dry weather, as required.

2.2.1 Field and Analytical Methods

As per the CCMRP, analytes and analytical processes were provided to the contracted laboratory. Sampling was conducted four times annually at 22 stations: two during wet weather events and two during a dry weather event. Water quality measurements and samples were collected at three depths (surface, mid-water column, and bottom). In situ measurements include temperature, dissolved oxygen (DO), hydrogen ion potential (pH), and salinity. Water samples were collected and submitted to the contracted laboratory for total suspended solids (TSS), total and dissolved metals, organochlorine pesticides, and PCB congeners.

2.2.2 Sampling Equipment

In situ water quality parameters were measured using a multi-parameter water quality instrument, equipped with sensors to measure temperature, DO, pH, and salinity. A lead line was attached to the instrument to estimate water depth at the time the measurements were taken. Once the instrument was lowered to the appropriate depth, the instrument was allowed to equilibrate for at least 1 minute at the targeted depth. Water samples were collected using a Van Dorn style water sampler that was decontaminated prior to each sample collection at each station.

2.2.3 Sample Identification

The sample nomenclature included the identifiers listed below, with an example in Figure 1. The identification codes shown below were used for the compliance monitoring program.

- Waterbody or site
- Media or sampling method code
- Station number
- Depth interval (in metric units), if applicable

- Date of collection
- Indication of field duplicate (i.e., add 1000 to station number) if applicable

For equipment rinsate blank or field blank samples, “EB” or “FB” were used, respectively, in place of the waterbody or site and station number. The date of sample collection was added to the end in YYYYMMDD format.

Sample nomenclature for water samples is shown in Figure 1 using the following example: a surface water sample grab, station number 09 from Outer Harbor – Los Angeles on July 31, 2013, is written as:

OA-RW-09-S-20130731

Sample nomenclature for field duplicates is shown in Figure 2, using the following example: a water sample collected at mid-depth, station number 09 from Outer Harbor – Los Angeles on July 31, 2013, that is a field duplicate is written as:

OA-RW-1009-M-20130731

Sample nomenclature for equipment blanks is shown in Figure 3, using the following example: an equipment blank of the decontaminated sample processing equipment after sample collection on July 31, 2013 is written as:

EB-20130731

2.2.4 Decontamination Procedures

All sample containers were pre-cleaned by laboratory standard procedures. All water quality equipment (e.g., Van Dorn sampler) in contact with the sample material was decontaminated using the following procedure:

1. Pre-rinse with tap or site water
2. Wash with solution of distilled water and Alconox™ soap
3. Rinse with site water
4. At the conclusion of the sampling event, rinse well with distilled water

5. Store in a clean closed container

New disposable gloves were used at each site to prevent cross-contamination.

2.2 Sediment

2.2.1 Bight Program and Bight 2013 Regional Monitoring

As per the Harbor Toxics TMDL, sediment quality monitoring will be performed twice every 5 years at each of the 22 stations. As agreed by the Los Angeles RWQCB on June 25, 2013, the first sediment sampling event conducted as part of the CCMRP was designed to coincide with the Southern California Bight Regional Monitoring Program in 2013 (Bight '13) to minimize costs associated with multiple sampling efforts and allow for a more robust and comprehensive dataset from which compliance could be evaluated (Unger 2013). Sediment sampling for the Bight '13 Regional Monitoring program included 396 stations throughout the Southern California Bight. Thirty stations were located within the Los Angeles and Long Beach Harbor waters, and 15 stations were located within Eastern San Pedro Bay and LARE.

2.2.2 Field Methods and Sampling Equipment

The field and laboratory methods described below are consistent with those described in the CCMRP and implemented as part of Bight '13. Field sediment sampling methods followed specific guidelines outlined in the Bight '13 Contaminant Impact Assessment (CIA) Field Operations Manual (Bight' 13 Field Sampling & Logistics Committee 2013), including field teams, activities, safety protocols, equipment use, sampling schedule, sampling stations, and managing data in the field. Surface sediment grabs were submitted for chemistry, toxicity, and benthic community analyses in accordance with the SQO Part I sediment triad assessment. Benthic samples were collected using a 0.1-m modified Van Veen grab sampler. Van Veen operation and sampling procedures are available in the Bight '13 CIA Field Operations Manual (Bight '13 Field Sampling & Logistics Committee 2013) and the Harbor Toxics TMDL/Bight '13 Monitoring Program Draft Report (Amec Foster Wheeler 2015). All equipment was rinsed and decontaminated between each site.

The field and laboratory methods were as follows:

- Sediment Chemistry – Samples were collected directly from an opening at the top of the sediment grab while the jaws of the Van Veen grab sampler were closed. The top 5 cm were collected using a decontaminated stainless steel scoop.
- Sediment Toxicity – Samples were collected directly from an opening at the top of the sediment grab while the jaws of the Van Veen grab sampler were closed. The top 5 cm were collected using a decontaminated stainless steel scoop; all containers were homogenized at the testing lab before being redistributed for toxicity testing.
- Benthic Community – Sediment was released from the Van Veen grab sampler into a plastic bin. The sediment was sieved through a 1.0-millimeter (mm) stainless steel mesh and rinsed with filtered seawater to wash sediment through the mesh, leaving benthic macroinfauna and larger debris for sorting and identification.

2.2.3 Station and Sample Identification

The Bight Program assigns sample locations using a stratified random design throughout the Southern California Bight. Bight Program sampling locations that fell within a water body segment defined in the Harbor Toxics TMDL-specified locations were considered representative of a Harbor Toxics TMDL-specified sampling point. If there was no sampling point within the representative water body area, then the Harbor Toxics TMDL-specified sampling point was added. For this Bight '13 event, four TMDL-specific locations were added to the Bight Program sampling design. Samples were labeled according to pre-determined nomenclature and as detailed in the Bight '13 CIA Field Operations Manual (Bight '13 Field Sampling & Logistics Committee 2013).

2.2.4 Sediment Quality Objectives Direct Effects Assessment

Sediment quality from Bight '13 samples collected in the Greater Harbor Waters was assessed using California's direct effects SQOs as described in the Final Staff Report, Water Quality Control Plan for Enclosed Bays and Estuaries, Part 1 – Sediment Quality (State Water Resources Control Board [SWRCB] – California Environmental Protection Agency [Cal EPA], 2008) and in Bay et al. (2009). The SQOs are based on a MLOE approach and includes sediment toxicity, sediment chemistry, and benthic community condition. The MLOE results were integrated through the evaluation of the severity of biological effects and

the potential for chemically-mediated effects to provide a final station level assessment. The specific methods associated with each line of evidence (LOE) and the integrated assessment are described below. Data used in this evaluation are considered preliminary Bight '13 data sampled and analyzed by Amec Foster Wheeler within Los Angeles and Long Beach Harbors; data collected in Eastern San Pedro Bay and LARE are not currently available for inclusion in this report. All data reported herein should be considered preliminary until the SCCWRP releases the fully validated results.

2.2.4.1 Sediment Toxicity

The *E. estuarius* and *M. galloprovincialis* sediment toxicity test results from each station were statistically compared to control test results, normalized to the control survival, and categorized according to Tables 2 and 3. The categories shown are established from thresholds using test-specific characteristics as described in detail by Bay et al. (2007). As shown in the table below, the categorization of data depends on whether or not the survival of *E. estuarius* and *M. galloprovincialis* from a project station is statistically significant from the survival of organisms in the control. For example, if survival of *E. estuarius* test sediment was 81% (of control survival) and was significantly different from the control survival using the statistical tests described above, then this sample would be categorized as “moderate toxicity.”

2.2.4.2 Sediment Chemistry

2.2.4.2.1 California Logistic Regression Model

Results of chemicals detected in project sediment were compared to the California Logistic Regression Model (CA LRM) and the Chemical Score Index (CSI). The CA LRM is based on the maximum probability model (PMAX) developed by Field et al. (2002). Each regression model estimates the probability of observing toxicity at the concentration of a contaminant of concern (or a class of contaminants of concern) in field collected sediments. The CA LRM follows this equation:

$$p = \frac{e^{B_0+B_1(x)}}{(1 + e^{B_0+B_1(x)})}$$

where:

| | | |
|----|---|---|
| p | = | probability of toxicity for target constituent |
| B0 | = | the intercept parameter |
| B1 | = | the slope parameter |
| e | = | natural log |
| x | = | the log of the concentration of the analyte of interest |

To calculate the CA LRM, concentrations of each contaminant are entered into the corresponding logistic regression model and the probability for causing toxicity is determined for each contaminant. The individual contaminant with the highest probability for causing toxicity is the PMAX value. The PMAX value determined for each project area is compared to the values in Table 4 and categorized according to the associated exposures (minimal, low, moderate, or high). For example, if the PMAX is determined to be 0.64, then the sample is categorized as “moderate exposure.”

2.2.4.2.2 Chemical Score Index

The CSI was developed by Ritter et al. (2007) for the SQO assessment and is based on the relationship between sediment chemical concentration and the degree of benthic community disturbance to Southern California benthic macrofauna. The CSI is the weighted mean of benthic community category scores based on guidelines developed for 13 contaminants with weighting factors for each contaminant as specified in Table 6 of Appendix A of the Final Staff Report (SWRCB-Cal EPA 2008). The CSI value determined for each project area is compared to the values in Table 4 and categorized according to the associated exposures (minimal, low, moderate, or high). For example, if the CSI is calculated to be 2.25, then the sample is categorized as “low exposure.”

2.2.4.2.3 Integration of Sediment Chemistry Categories

The final sediment LOE category is the average of the two chemistry exposure categories. If the average falls midway in between the two categories, it is rounded up to the higher (more impacted) of the two. For example, if the CA LRM is low exposure and the CSI is moderate exposure, then the final sediment LOE category is moderate exposure.

2.2.4.3 Benthic Community Condition

Benthic community condition was assessed using a combination of four benthic indices: the Benthic Response Index (BRI), Relative Benthic Index (RBI), Index of Biotic Integrity (IBI), and a predictive model based on the River Invertebrate Prediction and Classification System (RIVPACS). The BRI is the “abundance-weighted pollution tolerance score” of infaunal species, with scores increasing from 0 to 100 with greater levels of disturbance (Smith et al. 2001, 2003). The BRI scores were calculated using the abundances of species and their respective pollution-tolerance values. The RBI was calculated as the weighted sum of: a) four community parameters (total number of taxa, number of crustacean taxa, number of molluscan taxa, and number of crustacean individuals); b) three positive indicator organisms; and c) two negative indicator taxa. The RBI values were scaled from 0 to 1.0, with lower values indicative of higher levels of disturbance. Scores then were compared to categorization values to determine the community condition category of the sample (Table 5). Determination of the IBI involved comparisons of four community measures (total number of taxa, number of molluscan taxa, abundance of *Notomastus sp.*, and percentage of sensitive taxa) to reference conditions for Southern California bays and estuaries (Table 6). For every metric that exceeded a reference condition, the IBI value was increased by a score of one; therefore, IBI values potentially range from 0 to 4, with lower values indicative of lower levels of disturbance (Table 5). The RIVPACS index was used to compare the sample benthic community assemblages (Observed) to reference species compositions (Expected) within the same habitat. Calculation of the RIVPACS score involved the following calculations:

- The probability of the test sample belonging to the 12 Southern California reference sample groups
- The expected number of reference species based on probability of group membership
- The Observed/Expected RIVPACS score for comparisons to benthic community categorization values (Table 5)

The four indices were calculated according to guidance developed by SCCWRP (2008). Each benthic index result was categorized according to the following four levels of disturbance, with conditions ranging from a reference condition to high disturbance:

- Reference: Equivalent to a least affected or unaffected site

- Low Disturbance: Some indication of stress is present but is within measurement error of unaffected condition
- Moderate Disturbance: Clear evidence of physical, chemical, natural, or anthropogenic stress
- High Disturbance: High magnitude of stress

The benthic community condition was determined through the integration of the four indices into a single category by averaging the four benthic index response categories. If the median fell between two categories, the value was rounded to the next higher category to provide the most conservative estimate of benthic community condition.

2.2.5 Integrated Assessment by Station

The SQO direct effects assessment was evaluated at the station level. In accordance with the technical guidance (Bay et al. 2009), the station level assessment can be determined by combining the severity of biological effects category as shown in Table 7 with the potential for chemically-mediated effect category, which results in one of six possible station level assessments including unimpacted, likely unimpacted, possibly impacted, likely impacted, clearly impacted, and inconclusive.

2.3 Tissue

Fish tissue sampling consists of collection of targeted fish species for chemical analyses. As per the CCMRP, fish tissue samples are collected once every 2 years. Fish sampling was conducted from September 29 to October 2, 2014.

2.3.1 Field Methods

Sampling was conducted within four waterbodies: Consolidated Slip, Los Angeles Outer Harbor (near Cabrillo Pier), Long Beach Outer Harbor, and (eastern) Eastern San Pedro Bay (near Pier J). Targeted species that were caught and used for tissue analysis included white croaker (*Genyonemus lineatus*) and the sport fish California halibut (*Paralichthys californicus*). Shiner surfperch (*Cymatogaster aggregata*), northern anchovy (*Engraulis mordax*), and Pacific sardines (*Sardinops sagax*) were not caught in sufficient abundance for analyses; hence alternative prey species were collected and analyzed. Alternative prey fish

species collected and used for analysis included white surfperch (*Phanerodon furcatus*) and Pacific Pompano (*Peprilus simillimus*). Whole fish were collected and filleted (when applicable) and composited at the contracted laboratory. Fish tissues were analyzed for percent lipids, percent moisture, organochlorine pesticides, and PCB congeners.

2.3.2 Sampling Equipment

Fish were collected using a semi-balloon 7.6-meter headrope otter trawl from the vessel R/V *Early Bird II*. Trawls were deployed and towed for 10 minutes each. Upon trawl retrieval, fish were identified and sorted, and species of interest were measured (total length, fork length [when applicable], and weight) prior to being packaged and preserved on ice.

2.3.3 Sample Identification

Each sample had an adhesive plastic label affixed to the plastic bag and was labeled at the time of collection as specified in the fish tissue sampling and analysis plan (2014). The sample nomenclature included the identifiers listed below. The following identification codes were used when applicable:

- Waterbody or site
- Media or sampling method code
- Organism common name, if applicable
- Composite code
- Date of collection
- Indication of field duplicate (i.e., add 1000 to station number)

For equipment rinsate blank or field blank samples, “EB” or “FB” was used, respectively, in place of the waterbody or site and station number. The date of sample collection was added to the end in YYYYMMDD format.

For fish tissue samples, no station number was used. Because one station was selected in each of the four required waterbodies, the waterbody code is sufficient to identify fish tissue samples. “CP” was added as a designation of Cabrillo Pier used for an Outer Los Angeles Harbor sample to represent a popular fishing area.

Sample nomenclature for tissue samples is shown in Figure 4, using the following example: a white croaker, fish fillet skin off, composite one, from Outer Harbor – Long Beach on July 31, 2013, would be written as:

OB-FF-WC-C1-20130731

2.3.4 Sample Shipment Procedures

Fish samples were sacrificed and blotted dry prior to being packaged in aluminum foil (shiny side out). Each fish was individually labeled and packed in a re-sealable plastic bag and stored on ice. Samples were delivered to the analytical laboratory the same day they were collected.

2.4 Sediment Quality Objectives Indirect Effects Assessment

Although the State of California’s Water Quality Control Plan Part II (Indirect Effects) policy has not yet been finalized, the TMDL and Basin Plan make reference to this policy under development (and associated technical guidance) for assessing indirect effects or human health risks associated with sediment contamination. As specified in the draft technical guidance (Bay et al. 2009), the purpose of an indirect effects assessment is to determine if sediments meet the State’s narrative SQO for human health, or “Pollutants shall not be present in sediments at levels that will bioaccumulate in aquatic life to levels that are harmful to human health.” The indirect effects assessment evaluates whether sediment contamination at a site accumulates in seafood to levels that cause an unacceptable human health risk due to seafood consumption.

The guidance for demonstrating compliance through the SQO indirect effects policy is currently under development. Once the SQO indirect effects policy is finalized, this will be used instead of comparison to fish contamination goals (FCGs) to assess compliance with the TMDL.

3 RESULTS

Analytical chemistry results for water, sediment, and fish tissue are presented in the following sections. Field sampling forms for water, sediment, and fish sampling can be found in Appendices A-1, A-2, and A-3, respectively. Laboratory chemistry reports for water, sediment, and fish samples are available in Appendices B-1, B-2, and B-3, respectively.

3.1 Water

Water quality monitoring was conducted during four separate events: Summer 2014, Fall 2014 (coinciding with the first flush of the 2014/15 wet weather season), Winter 2015, and Summer 2015. Analytical results were compared to CTR Criteria for the Protection of Aquatic Life – Saltwater Chronic (CTR criteria [aquatic life]) and CTR Criteria for the Protection of Human Health for consumption of organisms only (CTR criteria [human health]). In general, analytical results showed concentrations at non-detectable levels or below applicable water quality criteria with the exception of dissolved copper and chlordane. Dissolved copper was the only parameter that exceeded CTR (aquatic life) criteria. At least one sample collected from all four events contained measurable concentrations greater than 3.1 micrograms per liter ($\mu\text{g/L}$) at locations within Consolidated Slip, Cabrillo Marina, Inner Long Beach Harbor, and LARE. Chlordane was the only parameter that exceeded CTR (human health) criteria. At least one sample collected from all four events contained measurable concentrations greater than 0.00059 $\mu\text{g/L}$ at locations within Inner Long Beach Harbor, Outer Long Beach Harbor, and Eastern San Pedro Bay. The number of samples with measurable concentrations greater than corresponding CTR criteria (aquatic life and human health) for all events per waterbody is shown in Table 8.

A detailed discussion of water quality results for each sampling event is provided in the following sections.

3.1.1 Summer 2014

3.1.1.1 Field Data

On September 26, 28, and 30, 2014, water samples and water quality measurements were collected at 22 predetermined locations through the Port of Los Angeles, Port of Long Beach,

and Eastern San Pedro Bay (Figure 5). Each station's coordinates and water depth were recorded. Measurements of DO, pH, salinity, and temperature were collected using a multi-parameter water quality instrument. Results were within expected ranges: DO ranged from 5.3 to 8.6 milligrams (mg)/L, pH ranged from 7.9 to 8.2 units, salinity ranged from 20.3 to 33.0 parts per thousand (ppt), and temperature ranged from 16.5 to 21.2 °C (Table 9). Field forms are provided in Appendix A-1.

3.1.1.2 Laboratory Data

Water samples were analyzed for several conventional parameters, total and dissolved metals, organochlorine pesticides, and PCB congeners. Analytical results are presented in Table 10. The number and percentage of exceedances relative to CTR criteria for all samples collected within the Greater Harbor Waters is also shown in Table 10. Dissolved copper at Station 10 in Cabrillo Marina had a concentration of 5.24 µg/L, which exceeded CTR criteria (aquatic life; representing only 4% of all samples collected). Chlordane exceeded the CTR criteria (human health) at Station 13 in Inner Long Beach Harbor, Station 16 in Outer Long Beach Harbor, and Station 19 in Eastern San Pedro Bay with concentrations of 0.0068 µg/L, 0.00061 µg/L, and 0.00065 µg/L, respectively. Toxaphene, dieldrin, and total PCBs were not detected in any water samples; however, the method detection limit (MDL) for toxaphene was elevated above both CTR criteria (aquatic life and human health) while the MDL for dieldrin and total PCBs was elevated above only the CTR criteria (human health). This indicates that there is some uncertainty in the determination of exceedance for these analytes¹². Water sample chemistry reports are available in Appendix B-1.

¹ While the TMDL target for toxaphene is an order of magnitude below other pesticides (i.e., 4,4'-DDT = 0.001 µg/L), it is well known that commercial laboratories cannot achieve the same (lower) detection limits for toxaphene as for other organochlorine pesticides. Using the standard methodology, toxaphene is difficult to analyze with the same sensitivity and precision as other organochlorines because it is a complex, multi-component mixture that can be further subjected to weathering in the environment. The complexity and weathering of toxaphene in the environment makes it dissimilar to analytical standards and therefore difficult to resolve with the same precision, sensitivity, and accuracy as other organochlorine chemicals.

² While the TMDL targets for both dieldrin and total PCBs are much lower than those of other pesticides and compounds (i.e., 4,4'-DDT = 0.001 µg/L), it is well known that commercial laboratories cannot achieve the same (lower) detection limits for dieldrin or total PCBs as for other organochlorine pesticides.

3.1.2 Fall 2014

3.1.2.1 Field Data

On November 2, 2014, water samples and water quality measurements were collected at 22 predetermined locations through the Port of Los Angeles, Port of Long Beach, and Eastern San Pedro Bay (Figure 6). Measurements of DO, pH, salinity, and temperature were collected using a multi-parameter water quality instrument. Results were within expected ranges: pH ranged from 7.8 to 8.2 units, salinity ranged from 31.9 to 33.9 ppt, and temperature ranged from 17.7 to 20.1 °C (Table 11). Measurements of DO ranged from 3.9 to 8.2 mg/L. DO below 5.0 mg/L are considered an exceedance of water quality criteria in accordance with the Basin Plan (RWQCB 1994). During this sampling event, DO was measured at Consolidated Slip at 4.3 to 4.6 mg/L, Station 2 adjacent to Consolidated Slip at 4.3 to 4.8 mg/L, and at both stations within LARE at 3.9 to 4.0 mg/L. The sampling event occurred within 24 hours of the first measurable rain storm of the winter. Low DO occurred in two areas likely to have the greatest influence from the storm. Each station's coordinates and water depth were recorded. Field forms are provided in Appendix A-1.

3.1.2.2 Laboratory Data

Water samples were analyzed for several conventional parameters, total and dissolved metals, organochlorine pesticides, and PCB congeners. Analytical results are presented in Table 12. The number and percentage of exceedances relative to CTR criteria for all samples collected within the Greater Harbor Waters is also shown in Table 12. Dissolved copper at Station 21 in LARE had a concentration of 4.48 µg/L, which exceeded CTR criteria (aquatic life; representing only 4% of all samples collected). Both toxaphene and dieldrin were not detected in any water samples above the MDL; however, the MDL for both compounds was elevated above the TMDL target, which indicates that there is some uncertainty in the determination of exceedance for this analyte. Water sample chemistry reports are available in Appendix B-1.

3.1.3 Winter 2015

3.1.3.1 Field Data

On February 23, 2015, water samples and water quality measurements were collected at 22 predetermined locations through the Port of Los Angeles, Port of Long Beach, and Eastern San Pedro Bay (Figure 7). Measurements of DO, pH, salinity, and temperature were collected using a multi-parameter water quality instrument. Results were within expected ranges: pH ranged from 7.5 to 8.2 units, salinity ranged from 20.2 to 35.9 ppt, and temperature ranged from 16.1 to 17.4 °C (Table 13). Measurements of DO ranged from 3.0 to 9.4 mg/L. During this sampling event, DO was measured at both stations within LARE at to 4.2 mg/L. The sampling event occurred within 24 hours of the first measurable rain storm of the winter. Low DO occurred in two areas likely to have the greatest influence from the storm. Each station's coordinates and water depth were recorded. Field forms are provided in Appendix A-1.

3.1.3.2 Laboratory Data

Water samples were analyzed for several conventional parameters, total and dissolved metals, organochlorine pesticides, and PCB congeners. Analytical results are presented in Table 14. The number and percentage of exceedances relative to CTR criteria for all samples collected within the Greater Harbor Waters is also shown in Table 14. Dissolved copper exceeded CTR criteria (aquatic life) at three locations (representing 13% of all samples collected): Station 1 in Consolidated Slip had a concentration of 4.62 µg/L, Station 10 in Cabrillo Marina had a concentration of 7.55 µg/L, and Station 12 in Inner Harbor Long Beach had a concentration of 3.35 µg/L. Both toxaphene and dieldrin were not detected in any water samples above the MDL; however, the MDL for both compounds was elevated above the TMDL target, which indicates that there is some uncertainty in the determination of exceedance for this analyte. Water sample chemistry reports are available in Appendix B-1.

3.1.4 Summer 2015

3.1.4.1 Field Data

On July 7, 2015 water samples and water quality measurements were collected at 22 predetermined locations through the Port of Los Angeles, Port of Long Beach, and Eastern

San Pedro Bay (Figure 8). Measurements of DO, pH, salinity, and temperature were collected using a multi-parameter water quality instrument. Results were within expected ranges: pH ranged from 7.6 to 8.2 units, salinity ranged from 25.2 to 38.8 ppt, and temperature ranged from 13.1 to 19.5 °C (Table 15). Measurements of DO ranged from 3.2 to 11.0 mg/L. DO below 5.0 mg/L are considered an exceedance of water quality criteria in accordance with the Basin Plan (RWQCB 1994). During this sampling event, DO was measured at Station 22 in LARE at 3.3 to 3.4 mg/L, at Station 7 in Fish Harbor from 3.2 to 3.9 mg/L, and three stations of Los Angeles Inner Harbor from 3.2 to 4.5 mg/L. At all Los Angeles Inner Harbor stations and Fish Harbor, depressed values were determined to be a result of inaccurate readings from the DO sensor. Corrective actions were taken, and subsequent monitoring shows DO values within normal ranges. DO readings at these specific stations are biased low and not representative of actual conditions. Each station's coordinates and water depth were recorded. Field forms are provided in Appendix A-1.

3.1.4.2 Laboratory Data

Water samples were analyzed for several conventional parameters, total and dissolved metals, organochlorine pesticides, and PCB congeners. Analytical results are presented in Table 16. The number and percentage of exceedances relative to CTR criteria for all samples collected within the Greater Harbor Waters is also shown in Table 16. Dissolved copper at Station 10 in Cabrillo Marina had a concentration of 8.65 µg/L, which exceeded CTR criteria (aquatic life; representing 4% of all samples collected).

Both toxaphene and dieldrin were not detected in any water samples above the MDL; however, the MDL for both compounds was elevated above the TMDL target, which indicates that there is some uncertainty in the determination of exceedance for this analyte. Water sample chemistry reports are available in Appendix B-1.

3.2 Sediment

3.2.1 Field Data

Chemistry, benthic infauna, and sediment toxicity were collected at 41 stations in the Greater Harbor Waters as part of the Bight '13 sampling program with required sample locations to support TMDL compliance monitoring. Only results from 30 stations located in

Los Angeles and Long Beach Harbor are available at this time and are presented in this report. The remaining results will be presented in a subsequent annual report, once available. Station names, waterbodies, and station coordinates are available in Table 17 and illustrated in Figure 9. At least one Bight '13 station is located within each of the Harbor Toxics TMDL-specified waterbodies. Sediment field forms are available in Appendix B of the Amec Foster Wheeler 2015 report.

3.2.2 Lab Data

3.2.2.1 Chemistry

Sediment chemistry results were compared to ERL sediment targets and the fish-associated sediment targets. The number and percentage of exceedances relative to the sediment targets for all samples collected within the Greater Harbor Waters are provided and totaled in Table 18. All metals tested (cadmium, chromium, copper, lead, mercury, and zinc) had at least one exceedance relative to either target. Four out of 30 cadmium samples, 5 out of 30 chromium samples, 26 out of 30 copper samples, 6 out of 30 lead samples, 26 out of 30 mercury samples, and 12 out of 30 zinc samples exceeded the ERL targets. For semivolatile organics, acenaphthene and anthracene exceeded the ERL in one sediment sample located in Inner Long Beach Harbor (at station B13-8399). For pesticides, 2 out of 30 4,4'-DDD samples and 9 out of 30 4,4'-DDE exceeded the sediment ERL. Dieldrin was not detected in any sediment samples above the MDL; however, the dieldrin MDL of 0.05 µg/kg was elevated above the ERL target value of 0.02 µg/kg, which indicates there is some uncertainty in the determination of exceedance for this analysis. Seven percent of total chlordane samples, 40% of total DDT samples, and 23% of total PCB congeners samples exceeded at least one of the sediment targets. Sediment sample chemistry reports are available in Appendix D of the Amec Foster Wheeler 2015 report.

3.2.2.2 Toxicity

Preliminary³ sediment toxicity showed a range in *M. galloprovincialis* survival ranging from 58.1 to 95.4%. *E. estuarius* survival ranged from 77.0 to 98.0%. Preliminary sediment toxicity test results are presented in Table 19.

3.2.2.3 Benthic

The total number of taxa per station ranged from 30 to 81 species. The number of mollusk taxa ranged from 1 to 27 species, while the number of crustacean taxa ranged from 3 to 14 species. Consolidated Slip contained the fewest number of taxa (30 species) and fewest mollusk taxa (1 species), whereas the Outer Long Beach Harbor contained the station (B13-8360) with the most overall taxa identified (81 species) and the most mollusk taxa (27 species). Inner Long Beach Harbor contained the stations (TMDL3-TB and B13-8399) with the lowest number of crustacean taxa identified (3 species), and Inner Los Angeles Harbor and Cabrillo Beach contained the stations (B13-8367 and B13-8306) with the highest number of crustacean taxa (14 species). Station composition of sensitive taxa ranged from 6.1 to 41.5%. Cabrillo Marina (TMDL-CH) had the lowest percent of sensitive taxa (6.1%) whereas Cabrillo Beach (B13-8306) had the highest percent of sensitive taxa (41.5%). Results by station and waterbody are provided in Table 20. The top ten most abundant species in the harbor included seven species of annelids, one mollusk, and two arthropods (Amec Foster Wheeler 2015). A full list of benthic species identified by station are provided in Appendix C (Amec Foster Wheeler 2015).

3.2.3 Sediment Quality Objectives

3.2.3.1 Direct Effects LOE Assessments

Sediment quality from Port of Los Angeles and Port of Long Beach was assessed using California's SQOs as described in the *Final Staff Report, Water Quality Control Plan for Enclosed Bays and Estuaries* (SWRCB-Cal EPA 2008). These SQOs are based on a MLOE approach in which the LOE are sediment chemistry (Table 21), benthic community condition (Table 22), and sediment toxicity (Table 23). The sediment chemistry LOE score ranged from low exposure to high exposure for all stations sampled within the harbor. The

³ Data are presented as "preliminary" at the request of SCCWRP until the Bight '13 reports are completed and made publicly available. All data used in this assessment have been validated and passed a quality assurance/quality control review.

benthic community LOE showed low disturbance at 22 out of 24 stations. One station exhibited reference conditions (in Inner Long Beach Harbor), and one station showed moderate disturbance (in Inner Long Beach Harbor). The toxicity LOE ranged from nontoxic to low toxicity for all stations within the harbor.

3.2.3.2 *Direct Effects Integrated Station Assessment*

The severity of biological effects (i.e., integration of toxicity LOE and benthic condition LOE categories) and the potential for chemically mediated effects (i.e., the integration of the toxicity LOE and chemistry LOE categories) were used to determine the station level assessment. The station level assessment, along with the percent of sampling stations not in compliance per waterbody, is available in Table 24 and Figure 11. Thirteen stations were found to be unimpacted. Eleven stations were found to be likely unimpacted and six possibly impacted. No stations were found to be likely impacted or clearly impacted.

3.3 Tissue

Fish tissue samples were collected between September 29 and October 2, 2014, from four waterbodies (Consolidated Slip, Outer Los Angeles Harbor, Outer Long Beach Harbor, and Eastern San Pedro Bay; Figure 10). Fish were composited at Eurofins Calscience on October 8 and 15 (as indicated in the composite sample ID names). Additional fish, collected as part of a special study conducted by the Ports of Long Beach and Los Angeles in accordance with the same methods and Programmatic Quality Assurance Project Plan (PQAPP), were provided by Amec Foster Wheeler on October 10 to overcome a shortage of fish collected in Consolidated Slip as part of the compliance monitoring efforts.

3.3.1 *Field Data*

A listing of the composite sample IDs, sample locations, and a summary of the field data (on a composite sample basis) for fish collected are presented in Table 25. Average lengths include the average length of all fish in the composite (sum of all total lengths of fish divided by number of fish in the composite). Average weights presented are the sum of the individual weights of all fish in a single composite divided by the number of fish in that respective composite. Average length and weight of fish per composite and total weight of each

composite are provided in Table 25. Fish tissue sampling field forms are available in Appendix C-2. Fish tissue sample chemistry reports are available in Appendix D-2.

3.3.1.1 Consolidated Slip

White croaker was the only species collected in Consolidated Slip and comprised of three composite samples. Average lengths of white croaker in composites ranged from 201.3 to 262 mm and weighed an average of 102.5 to 230 grams (g; Table 25).

3.3.1.2 Outer Los Angeles Harbor

California halibut, white croaker, and white surfperch were collected in the Outer Los Angeles waterbody near Cabrillo Pier. Average lengths of California halibut caught near Cabrillo Pier in composites ranged from 275.9 to 678.5 mm. The average weight of individual fish in composites for California halibut ranged from 181.4 to 3,500 g. Average lengths of white croaker caught near Cabrillo Pier in composites ranged from 213.5 to 224.3 mm and weighed an average of 97.5 to 157.5 g. White surfperch average lengths in composites ranged from 94.9 to 112.6 mm. Since some white surfperch were too light to register on the fish scale, composite sample weights could not be calculated.

3.3.1.3 Eastern San Pedro Bay

California halibut, California lizardfish, white croaker, northern anchovy, and Pacific pompano were collected in Eastern San Pedro Bay. California halibut, white croaker, and Pacific pompano were the only fish species for this waterbody that were used in chemical analysis. Pacific pompano was selected as a potential alternative prey species in the field and was used because white surfperch and northern anchovy were not caught in high enough abundance for tissue analysis. California halibut ranged from 242 to 570 mm total length and weighed 130 to 1680 g. White croaker ranged from 220 to 253 mm total length and weighed 100 to 190 g. Pacific pompano ranged from 82 to 165 mm total length and weighed 20 to 80 g (Table 25).

3.3.1.4 *Outer Long Beach Harbor*

California halibut, California lizardfish, white croaker, and white surfperch were collected in Outer Long Beach. California halibut, white croaker, and white surfperch were the only fish species for this waterbody that were used in chemical analysis. Average lengths of California halibut in composites ranged from 250.7 to 400 mm and weighed an average of 140 to 723.3 g. Average lengths of white croaker ranged from 213 to 231 mm and weighed an average of 120 to 127.5 g. Average lengths of white surfperch in composites ranged from 108.5 to 212 mm and weighed an average of 50 to 130 g (Table 25).

3.3.1.5 *Eastern San Pedro Bay*

California halibut, California lizardfish, white croaker, northern anchovy, and Pacific pompano were collected in Eastern San Pedro Bay. California halibut, white croaker, and Pacific pompano were the only fish species for this waterbody that were used in chemical analysis. Pacific pompano was selected as a potential alternative prey species in the field and was used because white surfperch and northern anchovy were not caught in high enough abundance for tissue analysis. Average lengths of California halibut in composites ranged from 270.25 to 513 mm and weighed an average of 182.5 to 1292.5 g. Average lengths of white croaker in composites ranged from 225.3 to 249 mm and weighed an average of 122.5 to 175 g. Average lengths of Pacific pompano in composites ranged from 98.1 to 157.9 mm and weighed an average of 26.7 to 65.7 g (Table 25).

3.3.2 *Lab Data*

Tissue chemistry results, including a summary of the number and percentage of samples that exceed FCG values per analyte, are presented in Table 26. A summary of the number of samples that exceed FCG values per waterbody is presented in Table 27.

3.3.2.1 *Consolidated Slip*

White croaker lipid content ranged from 1.8 to 3.2%. Dieldrin and toxaphene were not detected in white croaker from Consolidated Slip. One white croaker composite sample exceeded the total chlordane FCG value (5.6 µg/kg) with an estimated concentration of 20.6 µg/kg. All three white croaker composite samples exceeded the total DDT and total PCB

FCG values (21 µg/kg and 3.6 µg/kg, respectively) with concentrations ranging from 60.8 to 259 µg/kg for total DDTs and 56.5 to 194 µg/kg for total PCBs.

3.3.2.2 *Outer Los Angeles Harbor*

Lipid content ranged from 3.4 to 5.6% for white croaker, 0.18 to 0.33% for California halibut, and 1.2 to 2.1% for white surfperch. Dieldrin and toxaphene were not detected in any of the fish collected near Cabrillo Pier in Outer Los Angeles Harbor. Total chlordane was estimated at concentrations below the FCG value in all fish. California halibut did not exceed the FCG value for total DDTs; however, white croaker and white surfperch did exceed total DDT FCG values with concentrations ranging from 94.7 to 122 µg/kg and 40.3 to 71.7 µg/kg, respectively. All three composite samples for each fish species exceeded the total PCB FCG value with concentrations ranging from 9.50 to 11.1 µg/kg in California halibut, from 58.6 to 66.5 µg/kg for white croaker, and from 35.1 to 55.8 µg/kg in white surfperch.

3.3.2.3 *Outer Long Beach Harbor*

Lipid content ranged from 3.7 to 7.2% for white croaker, 0.25 to 0.38% for California halibut, and 2 to 7.4% for white surfperch. Dieldrin and toxaphene were not detected in any of the fish collected in Outer Long Beach Harbor. Total chlordane was estimated at concentrations below the FCG value in all fish. California halibut did not exceed the FCG value for total DDTs; however, white croaker and white surfperch did exceed total DDT FCG values with concentrations ranging from 121 to 214 µg/kg and 89.2 to 178 µg/kg, respectively. All three composite samples for each fish species exceeded the total PCB FCG value with concentrations ranging from 11.5 to 17.0 µg/kg in California halibut, from 103 to 135 µg/kg for white croaker, and from 86.3 to 229 µg/kg in white surfperch.

3.3.2.4 *Eastern San Pedro Bay*

Lipid content ranged from 2.4 to 5.2% for white croaker, 0.24 to 0.35% for California halibut, and 2.4 to 7.7% for Pacific pompano. Dieldrin and toxaphene were not detected in any of the fish collected in Eastern San Pedro Bay with the exception of one California halibut sample with an estimated dieldrin concentration below the FCG value. Total chlordane was below the FCG value in all California halibut and Pacific pompano composite samples. Total chlordane was detected in concentrations greater than the FCG value in two of the three

white croaker composite samples with estimated concentrations ranging from 8 to 8.9 µg/kg. California halibut did not exceed the FCG value for total DDTs; however, white croaker and Pacific pompano did exceed total DDT FCG values with concentrations ranging from 33.7 to 95.6 µg/kg and 41.1 to 135 µg/kg, respectively. With the exception of one California halibut composite sample, all remaining composite samples for each fish species exceeded the total PCB FCG value with concentrations ranging from 6.65 to 19.8 µg/kg in California halibut, from 58.3 to 141 µg/kg for white croaker, and from 29.8 to 57.4 µg/kg in Pacific pompano.

3.4 Deviations from the Sampling and Analysis Plan

3.4.1 Water Quality – Summer 2014

No deviations from the proposed SAP occurred.

3.4.2 Water Quality – Fall 2014

- The YSI cable was cut from a passing watercraft. Stations 19 and 20 are missing water quality parameter data.
- Station 21 was too shallow for measurements to be collected at mid and bottom depths.

3.4.3 Water Quality – Winter 2015

No deviations from the proposed SAP occurred.

3.4.4 Water Quality – Summer 2015

No deviations from the proposed SAP occurred.

3.4.5 Sediment Sampling – 2014

- Station B13-8309 within the Port of Los Angeles was abandoned per Bight '13 protocol due to collection failure due to a hard surface. It was replaced with a pre-determined overdraw station, B13-8365, in the Port of Long Beach.

3.4.6 Fish Tissue – 2014

- The minimum total length of California halibut caught and sampled was 8.7 inches (222 mm), which deviated from the minimum targeted length of 22 inches (559 mm).
- Sampling occurred from September 29 and extended to October 2, 2014, deviating from the targeted sampling dates of July 1 to September 30. Additional white croaker samples were supplied by Amec Foster Wheeler and collected on October 10.
- Pacific pompano was also collected as a potential alternative prey species, as few shiner surfperch and white surfperch were collected in Eastern San Pedro Bay.
- Tissue homogenization duplicates were not analyzed by the laboratory.

4 DATA QUALITY ASSESSMENT

4.1 Field Data Quality

Field data quality assurance (QA) measures outlined in the PQAPP were followed. Field duplicate samples were collected at a 5% frequency, as proposed by the PQAPP. Results of the field replicates are included in the data validation reports in Appendix D. Most results were within the project-required control limit of less than or equal to 25% relative percent difference (RPD). In cases where one of the samples or duplicate results fell below five times the method reporting limit (MRL), the RPD data quality objective (DQO) did not apply. In these cases, the difference between the two results needed to be less than two times the MRL in order to meet project DQOs. Field and rinsate blanks were collected with each water quality sampling event. No PCB congeners or pesticides were detected in the field and rinsate blanks. Some total and dissolved metals were detected in the blanks. Most detections were less than two times the MRL. Field and equipment blank detections are summarized in the data validation reports in Appendix D.

4.2 Analytical Data Quality

DQOs and QA procedures are provided in the PQAPP (Anchor QEA 2014b) and in the individual SAPs for each matrix (Anchor QEA 2014c, 2014d, 2015e). All data were validated according to Stage 2A guidelines (USEPA 2009). All data qualifiers applied to the data during final validation have been incorporated into the database for this project. Data were considered useable as reported or as qualified. Data qualifiers assigned during data validation include the following:

- “J” indicates that the associated numerical value is an estimated concentration.
- “U” indicates a reporting limit below which the analyte was not detected.
- “UJ” indicates an approximate reporting limit below which the analyte was not detected.

No data were rejected as a result of the validation process. Certain data were qualified as estimated values for a particular analysis based on a specified protocol or technical advisory, as stated in the data validation reports (Appendix D).

Overall, reporting limits were deemed acceptable to meet project objectives. Reporting limits for undetected results usually met or were below the target reporting limits specified in the SAPs. Some results were qualified as non-detect at raised reporting limits due to method blank contamination.

4.3 Data Completeness

Data completeness includes collection of required samples in the field and laboratory analysis for target chemicals as outlined in the project SAPs (Anchor QEA 2014c, 2014d, 2014e). All target samples were collected and submitted for the analyses specified in the SAPs.

Laboratory data completeness was measured by percentage of results reported by the analytical laboratory. Data completeness levels were set at 95% for all parameters, according to DQOs specified in the PQAPP (Anchor QEA 2014f). No data were rejected after data validation. DQOs were met with 100% completeness.

5 SUMMARY

This annual report presents results from water quality, sediment quality, and fish tissue quality monitoring activities required as part of the Harbor Toxics TMDL compliance monitoring and reporting program. Key results and conclusions from these activities include the following:

5.1 Water Quality

In general, water quality continued to meet water quality objectives. In situ and physical parameters were all within expected ranges with the exception of dissolved oxygen in samples collected from the Consolidated Slip during the Fall 2014 event and from the Los Angeles River Estuary during the Winter and Summer 2015 events. Chemical results were all below applicable water quality criteria with the exception of dissolved copper and chlordane. Dissolved copper was the only parameter to exceed CTR criteria (aquatic life) in one or more samples collected from Consolidated Slip, Cabrillo Marina, Inner Long Beach Harbor, and LARE. Chlordane was the only parameter to exceed CTR criteria (human health) in one or more samples from Inner Long Beach Harbor, Outer Long Beach Harbor, and Eastern San Pedro Bay.

5.2 Sediment Quality

Coordinated with the Bight '13 program, sediment results for the individual lines of evidence from the Los Angeles and Long Beach Harbors showed the following:

- Chemistry
 - Metals tended to be measured at concentrations greater than ERL values
 - Organics, including total PCBs and total DDXs, were occasionally measured at concentrations greater than ERL values or fish-associated sediment targets
- Benthic
 - The total number of taxa per station ranged from 30 to 81 species
 - The top ten most abundant species in the harbor included seven species of annelids, one mollusk, and two arthropods

- Toxicity
 - Sediment toxicity showed a range in *M. galloprovincialis* survival ranging from 58.1 to 95.4% and *E. estuarius* survival ranging from 77.0 to 98.0%

Using the sediment results from the individual lines of evidence, the SQO assessment for the Los Angeles and Long Beach Harbor stations determined 13 stations to be unimpacted, 11 to be likely unimpacted, and six to be possibly impacted. No stations were found to be likely impacted or clearly impacted.

A complete dataset of sediment quality results has not been made publically available from SCCWRP for Eastern San Pedro Bay; therefore, these results will be presented in a subsequent annual report, once received.

5.3 Tissue Quality

Total PCBs were measured at concentrations greater than the FCG in all fish from all stations (except one California halibut sample from Eastern San Pedro Bay). Total DDXs were measured at concentrations greater than the FCG in all white croaker and white surfperch or Pacific pompano at all stations. Total DDXs were not measured at concentrations greater than the FCG in any of the California halibut samples. Total chlordane was measured at concentrations greater than the FCG in only three samples.

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TABLES

Table 1
Sediment Quality 303(d) Listings for Harbor Waters

| Waterbody | Pollutants Requiring TMDL (Sediment and/or Tissue) | Other Requirements |
|---|--|--|
| Los Angeles/Long Beach Inner Harbor | Tissue: Chlordane, Dieldrin, DDT, PCBs, Toxaphene Sediment: Metals (Copper, Zinc), Benzo(a)pyrene, Chrysene | Toxicity and benthic community effects |
| Los Angeles/Long Beach Outer Harbor | Tissue: Chlordane, Dieldrin, DDT, PCBs, Toxaphene Sediment: None | Toxicity |
| Los Angeles Harbor – Inner Cabrillo Beach | Tissue: Chlordane, Dieldrin, DDT, PCBs, Toxaphene Sediment: Metals | None |
| Los Angeles Harbor – Cabrillo Marina | Tissue: Chlordane, Dieldrin, DDT, PCBs, Toxaphene Sediment: Benzo(a)pyrene, Pyrene | None |
| Los Angeles Harbor – Fish Harbor | Tissue: Chlordane, Dieldrin, DDT, PCBs, Toxaphene Sediment: Metals (Copper, Lead, Mercury, Zinc), Chlordane, DDT, PCBs, PAHs (Benzo[a]pyrene, Phenanthrene, Benzo[a]anthracene, Chrysene, Pyrene, Dibenzo[a,h]anthracene) | Toxicity |
| Consolidated Slip | Tissue: Chlordane, Dieldrin, DDT, PCBs, Toxaphene Sediment: Metals (Cadmium, Copper, Chromium, Lead, Zinc, Mercury), Chlordane, DDT, PCBs, PAHs (Benzo[a]pyrene, 2-methyl-naphthalene, Phenanthrene, Benzo[a]anthracene, Chrysene, Pyrene) | Toxicity and benthic community effects |
| San Pedro Bay | Tissue: Chlordane, Dieldrin, DDT, PCBs, Toxaphene Sediment: Metals, Chlordane, PAHs, DDT | Toxicity |
| Los Angeles River Estuary | Tissue: None Sediment: Metals, Chlordane, DDT, PCBs | Toxicity |

Notes:

Bold pollutants are required by the Harbor Toxics TMDL.

PAH = polycyclic aromatic hydrocarbon

PCB = polychlorinated biphenyl

TMDL = Total Maximum Daily Load

Table 2
Sediment Toxicity Categorization Values for *Eohaustorius estuarius*

| % Survival of <i>E. estuarius</i> in Project Sediment | | Category |
|---|---|-------------------|
| If Significantly Different than Control Survival | If Not Significantly Different from Control | |
| 90 – 100 | 82 – 100 | Nontoxic |
| 82 – 89 ¹ | 59 – 81 ¹ | Low Toxicity |
| 59 – 81 ¹ | NA | Moderate Toxicity |
| < 59 ¹ | < 59 ¹ | High Toxicity |

Notes:

1 = These values are the percentage of control survival

NA = Not applicable

Source: Amec Foster Wheeler (2015)

Table 3
Sediment Toxicity Categorization Values for *Mytilus galloprovincialis*

| % Survival of <i>Mytilus</i> in Project Sediment | | Category |
|--|---|-------------------|
| If Significantly Different than Control Survival | If Not Significantly Different from Control | |
| 80 – 100 | 79 – 100 | Nontoxic |
| 77 – 79 ¹ | 42 – 76 ¹ | Low Toxicity |
| 42 – 76 ¹ | NA | Moderate Toxicity |
| <42 ¹ | <42 ¹ | High Toxicity |

Notes:

1 = These values are the percentage of control survival

NA = Not applicable

Source: Amec Foster Wheeler (2015)

Table 4
Sediment Chemistry Guideline Categorization

| Sediment Chemistry Guideline | | Category |
|------------------------------|-------------|-------------------|
| CA LRM | CSI | |
| <0.33 | <1.69 | Minimal Exposure |
| 0.33 – 0.49 | 1.69 – 2.33 | Low Exposure |
| 0.50 – 0.66 | 2.34 – 2.99 | Moderate Exposure |
| >0.66 | >2.99 | High Exposure |

Notes:
 CA LRM = California Logistic Regression Model
 CSI = Chemical Score Index
 Source: Amec Foster Wheeler (2015)

Table 5
Benthic Index Categorization Values for Southern California Marine Bays

| Benthic Community Guideline | | | | Index |
|-----------------------------|--------|-------------|----------------------------|----------------------|
| BRI | IBI | RBI | RIVPACS | |
| < 39.96 | 0 | > 0.27 | > 0.90 – < 1.10 | Reference |
| 39.96 – 49.14 | 1 | 0.17 – 0.27 | 0.75 – 0.90 or 1.10 – 1.25 | Low Disturbance |
| 49.15 – 73.26 | 2 | 0.09 – 0.16 | 0.33 – 0.74 or > 1.25 | Moderate Disturbance |
| > 73.26 | 3 or 4 | < 0.09 | < 0.33 | High Disturbance |

Notes:

BRI = Benthic Response Index

IBI = Index of Biotic Integrity

RBI = Relative Benthic Index

RIVPACS = River Invertebrate Prediction and Classification System

Source: Amec Foster Wheeler (2015)

Table 6
Reference Ranges for IBI Metrics in Southern California Marine Bays

| Metric | Reference |
|------------------------------------|------------------|
| Total number of Taxa | 13 – 99 |
| Number of Mollusc Taxa | 2 – 25 |
| Abundance of <i>Notomastus sp.</i> | 0 – 59 |
| Percentage of sensitive species | 19 – 47.1 |

Notes:

IBI = Index of Biotic Integrity

Source: Amec Foster Wheeler (2015)

Table 7
Station Level Assessment Matrix

| Severity of Biological Effects Category | Potential for Chemically Mediated Effects Category | Station Level Assessment |
|--|---|-----------------------------------|
| Unaffected | Minimal Potential | Unimpacted |
| Unaffected | Low Potential | Unimpacted |
| Unaffected | Moderate Potential | Likely Unimpacted |
| Unaffected | High Potential | Inconclusive |
| Low Effect | Minimal Potential | Likely Unimpacted |
| Low Effect | Low Potential | Likely Unimpacted |
| Low Effect | Moderate Potential | Possibly Impacted or Inconclusive |
| Low Effect | High Potential | Likely Impacted |
| Moderate Effect | Minimal Potential | Likely Unimpacted |
| Moderate Effect | Low Potential | Possibly Impacted |
| Moderate Effect | Moderate Potential | Likely Impacted |
| Moderate Effect | High Potential | Clearly Impacted |
| High Effect | Minimal Potential | Inconclusive |
| High Effect | Low Potential | Possibly Impacted |
| High Effect | Moderate Potential | Likely Impacted |
| High Effect | High Potential | Clearly Impacted |

**Table 8
Summary of Water Quality Exceedances per Event**

| | Consolidated Slip | | | | Inner Harbor - LA | | | | Fish Harbor | | | | Outer Harbor - LA | | | | Cabrillo Marina | | | | Cabrillo Beach | | | | Inner Harbor - LB | | | | Outer Harbor - LB | | | | Eastern San Pedro Bay | | | | Los Angeles River Estuary | | | | | | | | | | | | | | | | | | |
|--------------------------|-------------------|-----------|-------------|-------------|---------------------------------------|-------------|-----------|-------------|-------------|--|-------------|-----------|-------------------|-------------|---------------------------------------|-------------|-----------------|-------------|-------------|--|----------------|-----------|-------------|-------------|---------------------------------------|-------------|-----------|-------------|-------------------|---------------------------------------|-------------|-----------|-----------------------|-------------|--|-------------|---------------------------|-------------|-------------|--|-------------|-----------|-------------|-------------|--|-------------|-----------|-------------|-------------|---------------------------------------|---|---|---|---|---|
| | Summer 2014 | Fall 2014 | Winter 2015 | Summer 2015 | Total No. Exceeded for the Year (n=4) | Summer 2014 | Fall 2014 | Winter 2015 | Summer 2015 | Total No. Exceeded for the Year (n=24) | Summer 2014 | Fall 2014 | Winter 2015 | Summer 2015 | Total No. Exceeded for the Year (n=4) | Summer 2014 | Fall 2014 | Winter 2015 | Summer 2015 | Total No. Exceeded for the Year (n=12) | Summer 2014 | Fall 2014 | Winter 2015 | Summer 2015 | Total No. Exceeded for the Year (n=1) | Summer 2014 | Fall 2014 | Winter 2015 | Summer 2015 | Total No. Exceeded for the Year (n=1) | Summer 2014 | Fall 2014 | Winter 2015 | Summer 2015 | Total No. Exceeded for the Year (n=16) | Summer 2014 | Fall 2014 | Winter 2015 | Summer 2015 | Total No. Exceeded for the Year (n=12) | Summer 2014 | Fall 2014 | Winter 2015 | Summer 2015 | Total No. Exceeded for the Year (n=12) | Summer 2014 | Fall 2014 | Winter 2015 | Summer 2015 | Total No. Exceeded for the Year (n=6) | | | | | |
| Dissolved Metals | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cadmium | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Chromium | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | |
| Copper | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | |
| Lead | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | |
| Zinc | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | |
| Mercury | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | |
| Organic Compounds | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Chlordane | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | | | | | |
| 4,4'-DDT | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | |
| Total PCBs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | |
| Dieldrin | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | |
| Toxaphene | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | |

Note:
PCB = polychlorinated biphenyl

**Table 9
Summer 2014 Water Quality Field Data**

| Station ID | Sample ID | Latitude | Longitude | Date | Time | Depth (ft) | DO | pH | Salinity (ppt) | Temperature (°C) | Sample Collected (Y/N) | Description of Sample | | | |
|------------|------------------------|----------|------------|-----------|-------|------------|-----|-----|----------------|------------------|------------------------|-----------------------|------|-------|-------|
| | | | | | | | | | | | | Floating Material | Odor | Sheen | Color |
| CS-RW-01 | CS-RW-01-G-S-20140930 | 33.77489 | -118.24529 | 9/30/2014 | 12:05 | 2.0 | 7.5 | 7.9 | 28.6 | 20.2 | Y | None | None | None | None |
| CS-RW-01 | CS-RW-01-G-M-20140930 | 33.77489 | -118.24529 | 9/30/2014 | 12:07 | 12.5 | 7.3 | 7.9 | 28.6 | 19.4 | Y | None | None | None | None |
| CS-RW-01 | CS-RW-01-G-B-20140930 | 33.77489 | -118.24529 | 9/30/2014 | 12:10 | 22.5 | 7.4 | 7.9 | 28.6 | 19.1 | Y | None | None | None | None |
| IA-RW-02 | IA-RW-02-G-S-20140930 | 33.76290 | -118.25481 | 9/30/2014 | 13:00 | 2.0 | 8.3 | 8.0 | 28.7 | 20.0 | Y | None | None | None | None |
| IA-RW-02 | IA-RW-02-G-M-20140930 | 33.76290 | -118.25481 | 9/30/2014 | 13:06 | 30.5 | 7.6 | 7.9 | 28.6 | 18.8 | Y | None | None | None | None |
| IA-RW-02 | IA-RW-02-G-B-20140930 | 33.76290 | -118.25481 | 9/30/2014 | 13:10 | 58.5 | 6.9 | 7.9 | 28.6 | 18.3 | Y | None | None | None | None |
| IA-RW-03 | IA-RW-03-G-S-20140930 | 33.76228 | -118.27410 | 9/30/2014 | 14:13 | 2.0 | 8.1 | 8.0 | 28.6 | 19.8 | Y | None | None | None | None |
| IA-RW-03 | IA-RW-03-G-M-20140930 | 33.76228 | -118.27410 | 9/30/2014 | 14:20 | 30.0 | 7.7 | 7.9 | 28.6 | 18.8 | Y | None | None | None | None |
| IA-RW-03 | IA-RW-03-G-B-20140930 | 33.76228 | -118.27410 | 9/30/2014 | 14:25 | 58.0 | 6.4 | 7.9 | 28.6 | 18.3 | Y | None | None | None | None |
| IA-RW-04 | IA-RW-04-G-S-20140930 | 33.75190 | -118.27099 | 9/30/2014 | 13:43 | 2.0 | 8.0 | 8.0 | 28.6 | 19.7 | Y | None | None | None | None |
| IA-RW-04 | IA-RW-04-G-M-20140930 | 33.75190 | -118.27099 | 9/30/2014 | 13:46 | 32.0 | 7.9 | 7.9 | 28.6 | 18.8 | Y | None | None | None | None |
| IA-RW-04 | IA-RW-04-G-B-20140930 | 33.75190 | -118.27099 | 9/30/2014 | 13:49 | 62.0 | 7.9 | 7.9 | 28.6 | 18.3 | Y | None | None | None | None |
| IA-RW-05 | IA-RW-05-G-S-20140930 | 33.73057 | -118.25699 | 9/30/2014 | 17:05 | 2.0 | 8.4 | 8.0 | 28.6 | 19.5 | Y | None | None | None | None |
| IA-RW-05 | IA-RW-05-G-M-20140930 | 33.73057 | -118.25699 | 9/30/2014 | 17:10 | 30.0 | 8.2 | 8.0 | 28.6 | 18.8 | Y | None | None | None | None |
| IA-RW-05 | IA-RW-05-G-B-20140930 | 33.73057 | -118.25699 | 9/30/2014 | 17:15 | 58.0 | 7.8 | 8.0 | 28.6 | 17.5 | Y | None | None | None | None |
| IA-RW-06 | IA-RW-06-G-S-20140930 | 33.72565 | -118.27148 | 9/30/2014 | 15:50 | 2.0 | 8.0 | 8.0 | 28.6 | 19.2 | Y | None | None | None | None |
| IA-RW-06 | IA-RW-06-G-M-20140930 | 33.72565 | -118.27148 | 9/30/2014 | 15:55 | 30.0 | 7.8 | 8.0 | 28.6 | 18.6 | Y | None | None | None | None |
| IA-RW-06 | IA-RW-06-G-B-20140930 | 33.72565 | -118.27148 | 9/30/2014 | 16:00 | 58.0 | 7.9 | 8.0 | 28.7 | 17.8 | Y | None | None | None | None |
| FH-RW-07 | FH-RW-07-G-S-20140930 | 33.73578 | -118.26733 | 9/30/2014 | 16:30 | 2.0 | 8.4 | 8.0 | 28.7 | 20.6 | Y | None | None | None | None |
| FH-RW-07 | FH-RW-07-G-M-20140930 | 33.73578 | -118.26733 | 9/30/2014 | 16:33 | 12.0 | 8.1 | 8.0 | 28.7 | 19.6 | Y | None | None | None | None |
| FH-RW-07 | FH-RW-07-G-B-20140930 | 33.73578 | -118.26733 | 9/30/2014 | 16:36 | 21.5 | 6.4 | 7.9 | 28.6 | 18.8 | Y | None | None | None | None |
| OA-RW-08 | OA-RW-08-G-S-20140930 | 33.71468 | -118.24228 | 9/30/2014 | 10:10 | 2.0 | 8.3 | 8.0 | 28.7 | 19.5 | Y | None | None | None | None |
| OA-RW-08 | OA-RW-08-G-M-20140930 | 33.71468 | -118.24228 | 9/30/2014 | 10:15 | 41.0 | 8.1 | 8.0 | 28.6 | 17.9 | Y | None | None | None | None |
| OA-RW-08 | OA-RW-08-G-B-20140930 | 33.71468 | -118.24228 | 9/30/2014 | 10:20 | 80.0 | 8.4 | 8.0 | 28.6 | 16.8 | Y | None | None | None | None |
| OA-RW-09 | OA-RW-09-G-S-20140930 | 33.71200 | -118.26336 | 9/30/2014 | 9:32 | 2.0 | 8.2 | 8.0 | 28.6 | 18.8 | Y | None | None | None | None |
| OA-RW-09 | OA-RW-09-G-M-20140930 | 33.71200 | -118.26336 | 9/30/2014 | 9:36 | 11.0 | 8.1 | 8.0 | 28.6 | 18.7 | Y | None | None | None | None |
| OA-RW-09 | OA-RW-09-G-B-20140930 | 33.71200 | -118.26336 | 9/30/2014 | 9:39 | 19.0 | 8.0 | 8.0 | 28.6 | 18.7 | Y | None | None | None | None |
| CM-RW-10 | CM-RW-10-G-S-20140930 | 33.71939 | -118.27905 | 9/30/2014 | 17:50 | 2.0 | 7.7 | 8.0 | 28.6 | 20.3 | Y | None | None | None | None |
| CM-RW-10 | CM-RW-10-G-M-20140930 | 33.71939 | -118.27905 | 9/30/2014 | 17:55 | 19.0 | 7.8 | 8.0 | 28.6 | 18.8 | Y | None | None | None | None |
| CM-RW-10 | CM-RW-10-G-B-20140930 | 33.71939 | -118.27905 | 9/30/2014 | 18:00 | 36.0 | 6.5 | 7.9 | 28.6 | 18.8 | Y | None | None | None | None |
| CB-RW-11 | CB-RW-11-G-S-20140930 | 33.17243 | -118.28090 | 9/30/2014 | 9:00 | 2.0 | 7.8 | 8.0 | 28.6 | 18.9 | Y | None | None | None | None |
| CB-RW-11 | CB-RW-11-G-M-20140930 | 33.17243 | -118.28090 | 9/30/2014 | 9:05 | 6.5 | 7.8 | 8.0 | 28.6 | 18.8 | Y | None | None | None | None |
| CB-RW-11 | CB-RW-11-G-B-20140930 | 33.17243 | -118.28090 | 9/30/2014 | 9:10 | 12.5 | 7.1 | 7.9 | 28.6 | 18.6 | Y | None | None | None | None |
| IB-RW-12 | IB-RW-12-G-S-20140928 | 33.76740 | -118.23348 | 9/28/2014 | 12:20 | 2.0 | 8.1 | 8.1 | 30.9 | 19.5 | Y | None | None | None | None |
| IB-RW-12 | IB-RW-12-G-M-20140928 | 33.76740 | -118.23348 | 9/28/2014 | 12:22 | 30.5 | 7.7 | 8.1 | 30.9 | 18.6 | Y | None | None | None | None |
| IB-RW-12 | IB-RW-12-G-B-201409328 | 33.76740 | -118.23348 | 9/28/2014 | 12:28 | 60.0 | 7.5 | 8.1 | 30.9 | 17.5 | Y | None | None | None | None |
| IB-RW-13 | IB-RW-13-G-S-20140928 | 33.75367 | -118.21620 | 9/28/2014 | 13:07 | 2.0 | 8.1 | 8.2 | 30.9 | 19.2 | Y | None | None | None | None |
| IB-RW-13 | IB-RW-13-G-M-20140928 | 33.75367 | -118.21620 | 9/28/2014 | 13:12 | 40.0 | 7.8 | 8.1 | 30.9 | 17.7 | Y | None | None | None | None |
| IB-RW-13 | IB-RW-13-G-B-20140928 | 33.75367 | -118.21620 | 9/28/2014 | 13:17 | 80.0 | 7.7 | 8.1 | 30.9 | 17.1 | Y | None | None | None | None |
| IB-RW-14 | IB-RW-14-G-S-20140928 | 33.74874 | -118.23112 | 9/28/2014 | 13:40 | 2.0 | 8.3 | 8.2 | 30.9 | 19.6 | Y | None | None | None | None |
| IB-RW-14 | IB-RW-14-G-M-20140928 | 33.74874 | -118.23112 | 9/28/2014 | 13:42 | 26.0 | 7.8 | 8.1 | 30.9 | 18.3 | Y | None | None | None | None |

Table 9
Summer 2014 Water Quality Field Data

| Station ID | Sample ID | Latitude | Longitude | Date | Time | Depth (ft) | DO | pH | Salinity (ppt) | Temperature (°C) | Sample Collected (Y/N) | Description of Sample | | | |
|------------|-----------------------|----------|------------|-----------|-------|------------|-----|-----|----------------|------------------|------------------------|-----------------------|------|-------|-------|
| | | | | | | | | | | | | Floating Material | Odor | Sheen | Color |
| IB-RW-14 | IB-RW-14-G-B-20140928 | 33.74874 | -118.23112 | 9/28/2014 | 13:44 | 50.0 | 7.4 | 8.1 | 30.9 | 17.3 | Y | None | None | None | None |
| IB-RW-15 | IB-RW-15-G-S-20140928 | 33.74202 | -118.19906 | 9/28/2014 | 14:17 | 2.0 | 8.3 | 8.2 | 30.9 | 19.5 | Y | None | None | None | None |
| IB-RW-15 | IB-RW-15-G-M-20140928 | 33.74202 | -118.19906 | 9/28/2014 | 14:20 | 30.0 | 8.0 | 8.2 | 30.9 | 18.2 | Y | None | None | None | None |
| IB-RW-15 | IB-RW-15-G-B-20140928 | 33.74202 | -118.19906 | 9/28/2014 | 14:23 | 57.0 | 7.9 | 8.1 | 30.9 | 16.7 | Y | None | None | None | None |
| OB-RW-16 | OB-RW-16-G-S-20140928 | 33.73129 | -118.22144 | 9/28/2014 | 11:35 | 2.0 | 8.2 | 8.1 | 30.9 | 17.9 | Y | None | None | None | None |
| OB-RW-16 | OB-RW-16-G-M-20140928 | 33.73129 | -118.22144 | 9/28/2014 | 11:30 | 30.0 | 8.2 | 8.1 | 30.9 | 18.3 | Y | None | None | None | None |
| OB-RW-16 | OB-RW-16-G-B-20140928 | 33.73129 | -118.22144 | 9/28/2014 | 11:25 | 60.0 | 8.4 | 8.1 | 30.9 | 19.3 | Y | None | None | None | None |
| OB-RW-17 | OB-RW-17-G-S-20140926 | 33.72765 | -118.18647 | 9/26/2014 | 16:20 | 2.0 | 8.3 | 8.2 | 31.8 | 19.6 | Y | None | None | None | None |
| OB-RW-17 | OB-RW-17-G-M-20140926 | 33.72765 | -118.18647 | 9/26/2014 | 16:25 | 39.0 | 8.4 | 8.2 | 31.8 | 19.4 | Y | None | None | None | None |
| OB-RW-17 | OB-RW-17-G-B-20140926 | 33.72765 | -118.18647 | 9/26/2014 | 16:30 | 76.0 | 6.1 | 8.2 | 31.6 | 16.5 | Y | None | None | None | None |
| SP-RW-18 | SP-RW-18-G-S-20140926 | 33.75335 | -118.18125 | 9/26/2014 | 13:30 | 2.0 | 7.9 | 8.2 | 31.0 | 21.0 | Y | None | None | None | None |
| SP-RW-18 | SP-RW-18-G-M-20140926 | 33.75335 | -118.18125 | 9/26/2014 | 13:35 | 20.5 | 8.3 | 8.2 | 31.7 | 19.2 | Y | None | None | None | None |
| SP-RW-18 | SP-RW-18-G-B-20140926 | 33.75335 | -118.18125 | 9/26/2014 | 13:40 | 39.0 | 7.1 | 8.1 | 31.7 | 18.6 | Y | None | None | None | None |
| SP-RW-19 | SP-RW-19-G-S-20140926 | 33.73648 | -118.13123 | 9/26/2014 | 14:25 | 2.0 | 8.3 | 8.2 | 31.5 | 21.0 | Y | None | None | None | None |
| SP-RW-19 | SP-RW-19-G-M-20140926 | 33.73648 | -118.13123 | 9/26/2014 | 14:30 | 15.0 | 8.3 | 8.2 | 31.6 | 19.6 | Y | None | None | None | None |
| SP-RW-19 | SP-RW-19-G-B-20140926 | 33.73648 | -118.13123 | 9/26/2014 | 14:35 | 28.0 | 8.6 | 8.2 | 31.7 | 18.0 | Y | None | None | None | None |
| SP-RW-20 | SP-RW-20-G-S-20140926 | 33.72531 | -118.15760 | 9/26/2014 | 15:25 | 2.0 | 8.2 | 8.2 | 31.7 | 19.6 | Y | None | None | None | None |
| SP-RW-20 | SP-RW-20-G-M-20140926 | 33.72531 | -118.15760 | 9/26/2014 | 15:30 | 27.0 | 8.2 | 8.2 | 31.7 | 17.8 | Y | None | None | None | None |
| SP-RW-20 | SP-RW-20-G-B-20140926 | 33.72531 | -118.15760 | 9/26/2014 | 15:35 | 51.0 | 8.3 | 8.2 | 31.8 | 18.1 | Y | None | None | None | None |
| LE-RW-21 | LE-RW-21-G-S-20140926 | 33.75600 | -118.19283 | 9/26/2014 | 13:05 | 2.0 | 6.8 | 8.1 | 30.1 | 21.0 | Y | None | None | None | None |
| LE-RW-21 | LE-RW-21-G-M-20140926 | 33.75600 | -118.19283 | 9/26/2014 | 13:09 | 3.3 | 6.6 | 8.1 | 21.2 | 21.2 | Y | None | None | None | None |
| LE-RW-21 | LE-RW-21-G-B-20140926 | 33.75600 | -118.19283 | 9/26/2014 | 13:12 | 5.9 | 7.4 | 8.2 | 20.3 | 20.3 | Y | None | None | None | None |
| LE-RW-22 | LE-RW-22-G-S-20140926 | 33.76123 | -118.20204 | 9/26/2014 | 9:57 | 3.0 | 5.3 | 8.0 | 31.2 | 20.4 | Y | None | None | None | None |
| LE-RW-22 | LE-RW-22-G-M-20140926 | 33.76123 | -118.20204 | 9/26/2014 | 9:59 | 3.6 | 5.3 | 8.0 | 31.1 | 20.3 | Y | None | None | None | None |
| LE-RW-22 | LE-RW-22-G-B-20140926 | 33.76123 | -118.20204 | 9/26/2014 | 10:01 | 6.5 | 6.0 | 8.0 | 33.0 | 20.0 | Y | None | None | None | None |

Notes:

DO = dissolved oxygen

ft = foot

ppt = parts per thousand

Table 10
Summer 2014 Water Quality Chemistry Results

| FINAL VALIDATED DATA | | | | Task | GWMA_2014_SmrDry | GWMA_2014_SmrDry | GWMA_2014_SmrDry | GWMA_2014_SmrDry | GWMA_2014_SmrDry | GWMA_2014_SmrDry |
|---------------------------------------|---|---|---------|-------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| | | | | Area | Consolidated Slip | Inner Harbor - LA | Inner Harbor - LA | Inner Harbor - LA | Inner Harbor - LA | Inner Harbor - LA |
| | | | | Location ID | CS-RW-01_201409 | IA-RW-02_201409 | IA-RW-03_201409 | IA-RW-04_201409 | IA-RW-05_201409 | IA-RW-06_201409 |
| | | | | Sample ID | CS-RW-01-G-S-20140930 | IA-RW-02-G-S-20140930 | IA-RW-03-G-S-20140930 | IA-RW-04-G-S-20140930 | IA-RW-05-G-S-20140930 | IA-RW-06-G-S-20140930 |
| | | | | Sample Date | 09/30/2014 | 09/30/2014 | 09/30/2014 | 09/30/2014 | 09/30/2014 | 09/30/2014 |
| | | | | Depth | 2 feet | 2 feet | 2 feet | 2 feet | 2 feet | 2 feet |
| | | | | Sample Type | N | N | N | N | N | N |
| | | | | Matrix | WO | WO | WO | WO | WO | WO |
| | | | | X | -118.24529 | -118.25481 | -118.2741 | -118.27099 | -118.25699 | -118.27148 |
| | | | | Y | 33.77489 | 33.7629 | 33.76228 | 33.7519 | 33.73057 | 33.72565 |
| | | | | | | | | | | |
| Method | California Toxics Rule Saltwater Continuous Concentration | Criteria for Protection of Human Health | | | | | | | | |
| Conventional Parameters (mg/L) | | | | | | | | | | |
| Total suspended solids (surface) | SM2540D | -- | -- | 1.0 | 0.95 U | 0.95 U | 0.95 U | 0.95 U | 0.95 U | 1.1 |
| Total suspended solids (middle)* | SM2540D | -- | -- | 2.4 | 1.0 | 1.4 | 1.0 | 1.0 | 1.0 | 1.5 |
| Total suspended solids (bottom)* | SM2540D | -- | -- | 4.5 | 1.1 | 1.0 | 1.2 | 1.1 | 1.1 | 5.0 |
| Metals (µg/L) | | | | | | | | | | |
| Cadmium | E1640 | -- | -- | 0.0762 | 0.0635 | 0.054 | 0.0512 | 0.0450 | 0.0450 | 0.0546 |
| Chromium | E1640 | -- | -- | 0.554 | 0.448 J | 0.399 J | 0.441 J | 0.443 J | 0.443 J | 0.477 J |
| Copper | E1640 | -- | -- | 2.98 | 2.72 | 1.88 | 2.07 | 1.27 | 1.27 | 1.76 |
| Lead | E1640 | -- | -- | 0.700 | 0.289 | 0.198 | 0.825 | 0.125 | 0.125 | 0.210 |
| Mercury | E1631E | -- | -- | 0.00106 | 0.000898 | 0.000762 | 0.000889 | 0.000507 | 0.000507 | 0.00129 |
| Zinc | E1640 | -- | -- | 11.8 | 9.90 | 4.64 | 4.96 | 3.08 | 3.08 | 5.17 |
| Metals, Dissolved (µg/L) | | | | | | | | | | |
| Cadmium | E1640 | 9.3 | -- | 0.0817 | 0.0705 | 0.0623 | 0.0630 | 0.0463 | 0.0463 | 0.0399 |
| Chromium | E1640 | 50 | -- | 0.392 J | 0.401 J | 0.341 J | 0.370 J | 0.336 J | 0.336 J | 0.335 J |
| Copper | E1640 | 3.1 | -- | 2.21 | 2.08 | 1.46 | 1.79 | 0.905 | 0.905 | 1.30 |
| Lead | E1640 | 8.1 | -- | 0.146 J | 0.150 J | 0.101 J | 0.948 J | 0.0313 J | 0.0313 J | 0.0172 J |
| Mercury | E1631E | 0.94 | 0.051 | 0.000485 U | 0.000383 J | 0.000388 J | 0.000334 J | 0.000233 J | 0.000233 J | 0.000328 J |
| Zinc | E1640 | 81 | -- | 11.0 | 9.92 | 4.44 | 4.85 | 3.20 | 3.20 | 2.89 |
| Pesticides (µg/L) | | | | | | | | | | |
| 2,4'-DDD (o,p'-DDD) | SW8081A | -- | -- | 0.00056 U | 0.00056 U | 0.00056 U | 0.00056 U | 0.00056 U | 0.00056 U | 0.00056 U |
| 2,4'-DDE (o,p'-DDE) | SW8081A | -- | -- | 0.00047 U | 0.00047 U | 0.00047 U | 0.00047 U | 0.00047 U | 0.00047 U | 0.00047 U |
| 2,4'-DDT (o,p'-DDT) | SW8081A | -- | -- | 0.00065 U | 0.00065 U | 0.00065 U | 0.00066 U | 0.00065 U | 0.00065 U | 0.00065 U |
| 4,4'-DDD (p,p'-DDD) | SW8081A | -- | -- | 0.00052 U | 0.00052 U | 0.00052 U | 0.00053 U | 0.00052 U | 0.00052 U | 0.00052 U |
| 4,4'-DDE (p,p'-DDE) | SW8081A | -- | -- | 0.00046 U | 0.00046 U | 0.00046 U | 0.00046 U | 0.00046 U | 0.00046 U | 0.00046 U |
| 4,4'-DDT (p,p'-DDT) | SW8081A | 0.001 | 0.00059 | 0.00053 U | 0.00053 U | 0.00053 U | 0.00053 U | 0.00053 U | 0.00053 U | 0.00053 U |
| Chlordane, alpha- (Chlordane, cis-) | SW8081A | -- | -- | 0.00047 U | 0.00047 U | 0.00047 U | 0.00047 U | 0.00047 U | 0.00047 U | 0.00047 U |
| Chlordane, beta- (Chlordane, trans-) | SW8081A | -- | -- | 0.00047 U | 0.00047 U | 0.00047 U | 0.00047 U | 0.00047 U | 0.00047 U | 0.00047 U |
| Dieldrin | SW8081A | 0.0019 | 0.00014 | 0.00052 U | 0.00052 U | 0.00052 U | 0.00053 U | 0.00052 U | 0.00052 U | 0.00052 U |
| Nonachlor, cis- | SW8081A | -- | -- | 0.00048 U | 0.00048 U | 0.00048 U | 0.00048 U | 0.00048 U | 0.00048 U | 0.00048 U |
| Nonachlor, trans- | SW8081A | -- | -- | 0.00053 U | 0.00053 U | 0.00053 U | 0.00054 U | 0.00053 U | 0.00053 U | 0.00053 U |
| Oxychlordane | SW8081A | -- | -- | 0.00060 U | 0.00060 U | 0.00060 U | 0.00060 U | 0.00060 U | 0.00060 U | 0.00060 U |
| Toxaphene | SW8081A | 0.0002 | -- | 0.0079 U | 0.0079 U | 0.0079 U | 0.0079 U | 0.0079 U | 0.0079 U | 0.0079 U |
| Total chlordane (U = 0) | | 0.004 | 0.00059 | 0.00030 U | 0.00030 U | 0.00030 U | 0.00030 U | 0.00030 U | 0.00030 U | 0.00030 U |
| Total DDx (U = 0) | | -- | -- | 0.00033 U | 0.00033 U | 0.00033 U | 0.00033 U | 0.00033 U | 0.00033 U | 0.00033 U |

Table 10
Summer 2014 Water Quality Chemistry Results

| FINAL VALIDATED DATA | | | | Task | GWMA_2014_SmrDry | GWMA_2014_SmrDry | GWMA_2014_SmrDry | GWMA_2014_SmrDry | GWMA_2014_SmrDry | GWMA_2014_SmrDry |
|--|------------|----|----|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| | | | | Area | Consolidated Slip | Inner Harbor - LA | Inner Harbor - LA | Inner Harbor - LA | Inner Harbor - LA | Inner Harbor - LA |
| | | | | Location ID | CS-RW-01_201409 | IA-RW-02_201409 | IA-RW-03_201409 | IA-RW-04_201409 | IA-RW-05_201409 | IA-RW-06_201409 |
| | | | | Sample ID | CS-RW-01-G-S-20140930 | IA-RW-02-G-S-20140930 | IA-RW-03-G-S-20140930 | IA-RW-04-G-S-20140930 | IA-RW-05-G-S-20140930 | IA-RW-06-G-S-20140930 |
| | | | | Sample Date | 09/30/2014 | 09/30/2014 | 09/30/2014 | 09/30/2014 | 09/30/2014 | 09/30/2014 |
| | | | | Depth | 2 feet | 2 feet | 2 feet | 2 feet | 2 feet | 2 feet |
| | | | | Sample Type | N | N | N | N | N | N |
| | | | | Matrix | WO | WO | WO | WO | WO | WO |
| | | | | X | -118.24529 | -118.25481 | -118.2741 | -118.27099 | -118.25699 | -118.27148 |
| | | | | Y | 33.77489 | 33.7629 | 33.76228 | 33.7519 | 33.73057 | 33.72565 |
| | | | | Method | | | | | | |
| | | | | California Toxics Rule Saltwater Continuous Concentration | | | | | | |
| | | | | Criteria for Protection of Human Health | | | | | | |
| PCB Congeners - Low resolution (µg/L) | | | | | | | | | | |
| PCB-018 | SW8270CSIM | -- | -- | 0.00040 U | 0.00040 U | 0.00040 U | 0.00040 U | 0.00041 U | 0.00040 U | |
| PCB-028 | SW8270CSIM | -- | -- | 0.00064 U | 0.00063 U | 0.00064 U | 0.00063 U | 0.00065 U | 0.00063 U | |
| PCB-037 | SW8270CSIM | -- | -- | 0.00046 U | 0.00046 U | 0.00046 U | 0.00046 U | 0.00047 U | 0.00046 U | |
| PCB-044 | SW8270CSIM | -- | -- | 0.00075 U | 0.00074 U | 0.00075 U | 0.00074 U | 0.00076 U | 0.00074 U | |
| PCB-049 | SW8270CSIM | -- | -- | 0.00075 U | 0.00074 U | 0.00075 U | 0.00074 U | 0.00077 U | 0.00074 U | |
| PCB-052 | SW8270CSIM | -- | -- | 0.00049 U | 0.00049 U | 0.00049 U | 0.00049 U | 0.00050 U | 0.00049 U | |
| PCB-066 | SW8270CSIM | -- | -- | 0.00055 U | 0.00055 U | 0.00055 U | 0.00055 U | 0.00056 U | 0.00055 U | |
| PCB-070 | SW8270CSIM | -- | -- | 0.00037 U | 0.00036 U | 0.00037 U | 0.00036 U | 0.00037 U | 0.00036 U | |
| PCB-074 | SW8270CSIM | -- | -- | 0.00041 U | 0.00041 U | 0.00041 U | 0.00041 U | 0.00042 U | 0.00041 U | |
| PCB-077 | SW8270CSIM | -- | -- | 0.00063 U | 0.00062 U | 0.00063 U | 0.00062 U | 0.00064 U | 0.00062 U | |
| PCB-081 | SW8270CSIM | -- | -- | 0.00047 U | 0.00046 U | 0.00047 U | 0.00046 U | 0.00047 U | 0.00046 U | |
| PCB-087 | SW8270CSIM | -- | -- | 0.00048 U | 0.00048 U | 0.00048 U | 0.00048 U | 0.00049 U | 0.00048 U | |
| PCB-099 | SW8270CSIM | -- | -- | 0.00058 U | 0.00058 U | 0.00058 U | 0.00058 U | 0.00059 U | 0.00058 U | |
| PCB-101 | SW8270CSIM | -- | -- | 0.00056 U | 0.00055 U | 0.00056 U | 0.00055 U | 0.00057 U | 0.00055 U | |
| PCB-105 | SW8270CSIM | -- | -- | 0.00036 U | 0.00036 U | 0.00036 U | 0.00036 U | 0.00037 U | 0.00036 U | |
| PCB-110 | SW8270CSIM | -- | -- | 0.00048 U | 0.00048 U | 0.00048 U | 0.00048 U | 0.00049 U | 0.00048 U | |
| PCB-114 | SW8270CSIM | -- | -- | 0.00042 U | 0.00042 U | 0.00042 U | 0.00042 U | 0.00043 U | 0.00042 U | |
| PCB-118 | SW8270CSIM | -- | -- | 0.00047 U | 0.00047 U | 0.00047 U | 0.00047 U | 0.00048 U | 0.00047 U | |
| PCB-119 | SW8270CSIM | -- | -- | 0.00041 U | 0.00041 U | 0.00041 U | 0.00041 U | 0.00042 U | 0.00041 U | |
| PCB-123 | SW8270CSIM | -- | -- | 0.00074 U | 0.00073 U | 0.00074 U | 0.00073 U | 0.00075 U | 0.00073 U | |
| PCB-126 | SW8270CSIM | -- | -- | 0.00052 U | 0.00052 U | 0.00052 U | 0.00052 U | 0.00053 U | 0.00052 U | |
| PCB-128 | SW8270CSIM | -- | -- | 0.00068 U | 0.00067 U | 0.00068 U | 0.00067 U | 0.00069 U | 0.00067 U | |
| PCB-132/153 | SW8270CSIM | -- | -- | 0.00110 U | 0.00110 U | 0.00110 U | 0.00110 U | 0.00120 U | 0.00110 U | |
| PCB-138/158 | SW8270CSIM | -- | -- | 0.00110 U | 0.00110 U | 0.00110 U | 0.00110 U | 0.00110 U | 0.00110 U | |
| PCB-149 | SW8270CSIM | -- | -- | 0.00049 U | 0.00048 U | 0.00049 U | 0.00048 U | 0.00050 U | 0.00048 U | |
| PCB-151 | SW8270CSIM | -- | -- | 0.00059 U | 0.00058 U | 0.00059 U | 0.00058 U | 0.00060 U | 0.00058 U | |
| PCB-156 | SW8270CSIM | -- | -- | 0.00049 U | 0.00049 U | 0.00049 U | 0.00049 U | 0.00050 U | 0.00049 U | |
| PCB-157 | SW8270CSIM | -- | -- | 0.00072 U | 0.00072 U | 0.00072 U | 0.00072 U | 0.00074 U | 0.00072 U | |
| PCB-167 | SW8270CSIM | -- | -- | 0.00083 U | 0.00083 U | 0.00083 U | 0.00083 U | 0.00085 U | 0.00083 U | |
| PCB-168 | SW8270CSIM | -- | -- | 0.00032 U | 0.00031 U | 0.00032 U | 0.00031 U | 0.00032 U | 0.00031 U | |
| PCB-169 | SW8270CSIM | -- | -- | 0.00054 U | 0.00054 U | 0.00054 U | 0.00054 U | 0.00055 U | 0.00054 U | |
| PCB-170 | SW8270CSIM | -- | -- | 0.00054 U | 0.00054 U | 0.00054 U | 0.00054 U | 0.00055 U | 0.00054 U | |
| PCB-177 | SW8270CSIM | -- | -- | 0.00055 U | 0.00054 U | 0.00055 U | 0.00054 U | 0.00056 U | 0.00054 U | |
| PCB-180 | SW8270CSIM | -- | -- | 0.00069 U | 0.00068 U | 0.00069 U | 0.00068 U | 0.00070 U | 0.00068 U | |
| PCB-183 | SW8270CSIM | -- | -- | 0.00051 U | 0.00051 U | 0.00051 U | 0.00051 U | 0.00052 U | 0.00051 U | |

Table 10
Summer 2014 Water Quality Chemistry Results

| FINAL VALIDATED DATA | | | | Task | GWMA_2014_SmrDry | GWMA_2014_SmrDry | GWMA_2014_SmrDry | GWMA_2014_SmrDry | GWMA_2014_SmrDry | GWMA_2014_SmrDry |
|---|---|---|---------|-------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| | | | | Area | Consolidated Slip | Inner Harbor - LA | Inner Harbor - LA | Inner Harbor - LA | Inner Harbor - LA | Inner Harbor - LA |
| | | | | Location ID | CS-RW-01_201409 | IA-RW-02_201409 | IA-RW-03_201409 | IA-RW-04_201409 | IA-RW-05_201409 | IA-RW-06_201409 |
| | | | | Sample ID | CS-RW-01-G-S-20140930 | IA-RW-02-G-S-20140930 | IA-RW-03-G-S-20140930 | IA-RW-04-G-S-20140930 | IA-RW-05-G-S-20140930 | IA-RW-06-G-S-20140930 |
| | | | | Sample Date | 09/30/2014 | 09/30/2014 | 09/30/2014 | 09/30/2014 | 09/30/2014 | 09/30/2014 |
| | | | | Depth | 2 feet | 2 feet | 2 feet | 2 feet | 2 feet | 2 feet |
| | | | | Sample Type | N | N | N | N | N | N |
| | | | | Matrix | WO | WO | WO | WO | WO | WO |
| | | | | X | -118.24529 | -118.25481 | -118.2741 | -118.27099 | -118.25699 | -118.27148 |
| | | | | Y | 33.77489 | 33.7629 | 33.76228 | 33.7519 | 33.73057 | 33.72565 |
| | | | | | | | | | | |
| Method | California Toxics Rule Saltwater Continuous Concentration | Criteria for Protection of Human Health | | | | | | | | |
| PCB-187 | SW8270CSIM | -- | -- | 0.00054 U | 0.00053 U | 0.00054 U | 0.00053 U | 0.00055 U | 0.00053 U | |
| PCB-189 | SW8270CSIM | -- | -- | 0.00038 U | 0.00038 U | 0.00038 U | 0.00038 U | 0.00039 U | 0.00038 U | |
| PCB-194 | SW8270CSIM | -- | -- | 0.00040 U | 0.00040 U | 0.00040 U | 0.00040 U | 0.00041 U | 0.00040 U | |
| PCB-195 | SW8270CSIM | -- | -- | 0.00034 U | 0.00034 U | 0.00034 U | 0.00034 U | 0.00035 U | 0.00034 U | |
| PCB-201 | SW8270CSIM | -- | -- | 0.00070 U | 0.00069 U | 0.0007 U | 0.00069 U | 0.00071 U | 0.00069 U | |
| PCB-206 | SW8270CSIM | -- | -- | 0.00025 U | 0.00024 U | 0.00025 U | 0.00024 U | 0.00025 U | 0.00024 U | |
| Total PCB congener - low resolution (U = 0) | -- | 0.03 | 0.00017 | 0.00055 U | 0.00055 U | 0.00055 U | 0.00055 U | 0.00060 U | 0.00055 U | |

Table 10
Summer 2014 Water Quality Chemistry Results

| FINAL VALIDATED DATA | GWMA_2014_SmrDry | GWMA_2014_SmrDry | GWMA_2014_SmrDry | GWMA_2014_SmrDry | GWMA_2014_SmrDry | GWMA_2014_SmrDry | | |
|---------------------------------------|---|-----------------------|-----------------------|-------------------------|-----------------------|-----------------------|------------|------------|
| | Inner Harbor - LA | Fish Harbor | Outer Harbor - LA | Outer Harbor - LA | Outer Harbor - LA | Cabrillo Marina | | |
| | IA-RW-06_201409 | FH-RW-07_201409 | OA-RW-08_201409 | OA-RW-08_201409 | OA-RW-09_201409 | CM-RW-10_201409 | | |
| | IA-RW-1006-G-M-20140930 | FH-RW-07-G-S-20140930 | OA-RW-08-G-S-20140930 | OA-RW-1008-G-S-20140930 | OA-RW-09-G-S-20140930 | CM-RW-10-G-S-20140930 | | |
| | 09/30/2014 | 09/30/2014 | 09/30/2014 | 09/30/2014 | 09/30/2014 | 09/30/2014 | | |
| | 30 feet | 2 feet | 2 feet | 2 feet | 2 feet | 2 feet | | |
| | FD | N | N | FD | N | N | | |
| | WO | WO | WO | WO | WO | WO | | |
| | -118.27148 | -118.26733 | -118.24228 | -118.24228 | -118.26336 | -118.27905 | | |
| | 33.72565 | 33.73578 | 33.71468 | 33.71468 | 33.712 | 33.71939 | | |
| Method | California Toxics Rule Saltwater Continuous Concentration | | | | | | | |
| Conventional Parameters (mg/L) | | | | | | | | |
| Total suspended solids (surface) | SM2540D | -- | -- | 1.1 | 0.95 U | 0.95 U | 1.0 | 0.95 U |
| Total suspended solids (middle)* | SM2540D | -- | 1.7 | 1.4 | 0.95 U | -- | 1.1 | 2.0 |
| Total suspended solids (bottom)* | SM2540D | -- | -- | 3.3 | 1.0 | -- | 1.3 | 3.8 |
| Metals (µg/L) | | | | | | | | |
| Cadmium | E1640 | -- | -- | 0.0719 | 0.0258 J | 0.0272 J | 0.0416 | 0.0654 |
| Chromium | E1640 | -- | -- | 0.438 J | 0.399 J | 0.423 J | 0.431 J | 0.432 J |
| Copper | E1640 | -- | -- | 4.31 | 0.414 | 0.273 | 1.25 | 6.44 |
| Lead | E1640 | -- | -- | 0.527 | 0.595 | 0.124 | 0.205 | 0.171 |
| Mercury | E1631E | -- | -- | 0.00230 | 0.000473 J | 0.000427 J | 0.000656 | 0.000607 |
| Zinc | E1640 | -- | -- | 10.5 | 2.76 | 3.11 | 5.21 | 19.0 |
| Metals, Dissolved (µg/L) | | | | | | | | |
| Cadmium | E1640 | 9.3 | -- | 0.0679 | 0.0125 J | 0.0373 | 0.022 J | 0.0722 |
| Chromium | E1640 | 50 | -- | 0.360 J | 0.387 J | 0.391 J | 0.349 J | 0.363 J |
| Copper | E1640 | 3.1 | -- | 3.02 | 0.0667 | 0.257 | 0.697 | 5.24 |
| Lead | E1640 | 8.1 | -- | 0.140 J | 0.0135 U | 0.0827 J | 0.0135 U | 0.0704 J |
| Mercury | E1631E | 0.94 | -- | 0.000416 J | 0.000329 U | 0.000291 U | 0.000469 U | 0.000419 J |
| Zinc | E1640 | 81 | -- | 9.79 | 0.290 J | 3.36 | 0.576 | 18.1 |
| Pesticides (µg/L) | | | | | | | | |
| 2,4'-DDD (o,p'-DDD) | SW8081A | -- | -- | 0.00056 U | 0.00056 U | 0.00056 U | 0.00056 U | 0.00057 U |
| 2,4'-DDE (o,p'-DDE) | SW8081A | -- | -- | 0.00047 U | 0.00047 U | 0.00047 U | 0.00047 U | 0.00047 U |
| 2,4'-DDT (o,p'-DDT) | SW8081A | -- | -- | 0.00065 U | 0.00065 U | 0.00065 U | 0.00065 U | 0.00067 U |
| 4,4'-DDD (p,p'-DDD) | SW8081A | -- | -- | 0.00052 U | 0.00052 U | 0.00052 U | 0.00052 U | 0.00053 U |
| 4,4'-DDE (p,p'-DDE) | SW8081A | -- | -- | 0.00046 U | 0.00046 U | 0.00046 U | 0.00046 U | 0.00046 U |
| 4,4'-DDT (p,p'-DDT) | SW8081A | 0.001 | -- | 0.00053 U | 0.00053 U | 0.00053 U | 0.00053 U | 0.00054 U |
| Chlordane, alpha- (Chlordane, cis-) | SW8081A | -- | -- | 0.00047 U | 0.00047 U | 0.00047 U | 0.00047 U | 0.00048 U |
| Chlordane, beta- (Chlordane, trans-) | SW8081A | -- | -- | 0.00047 U | 0.00047 U | 0.00047 U | 0.00047 U | 0.00047 U |
| Dieldrin | SW8081A | 0.0019 | -- | 0.00052 U | 0.00052 U | 0.00052 U | 0.00052 U | 0.00053 U |
| Nonachlor, cis- | SW8081A | -- | -- | 0.00048 U | 0.00048 U | 0.00048 U | 0.00048 U | 0.00049 U |
| Nonachlor, trans- | SW8081A | -- | -- | 0.00053 U | 0.00053 U | 0.00053 U | 0.00053 U | 0.00054 U |
| Oxychlordane | SW8081A | -- | -- | 0.00060 U | 0.00060 U | 0.00060 U | 0.00060 U | 0.00061 U |
| Toxaphene | SW8081A | 0.0002 | -- | 0.0079 U | 0.0079 U | 0.0079 U | 0.0079 U | 0.0080 U |
| Total chlordane (U = 0) | | 0.004 | -- | 0.00030 U | 0.00030 U | 0.00030 U | 0.00030 U | 0.00031 U |
| Total DDx (U = 0) | | -- | -- | 0.00033 U | 0.00033 U | 0.00033 U | 0.00033 U | 0.00034 U |

Table 10
Summer 2014 Water Quality Chemistry Results

| FINAL VALIDATED DATA | | | GWMA_2014_SmrDry | GWMA_2014_SmrDry | GWMA_2014_SmrDry | GWMA_2014_SmrDry | GWMA_2014_SmrDry | GWMA_2014_SmrDry |
|--|---|----|-------------------------|-----------------------|-----------------------|-------------------------|-----------------------|-----------------------|
| | | | Inner Harbor - LA | Fish Harbor | Outer Harbor - LA | Outer Harbor - LA | Outer Harbor - LA | Cabrillo Marina |
| | | | IA-RW-06_201409 | FH-RW-07_201409 | OA-RW-08_201409 | OA-RW-08_201409 | OA-RW-09_201409 | CM-RW-10_201409 |
| | | | IA-RW-1006-G-M-20140930 | FH-RW-07-G-S-20140930 | OA-RW-08-G-S-20140930 | OA-RW-1008-G-S-20140930 | OA-RW-09-G-S-20140930 | CM-RW-10-G-S-20140930 |
| | | | 09/30/2014 | 09/30/2014 | 09/30/2014 | 09/30/2014 | 09/30/2014 | 09/30/2014 |
| | | | 30 feet | 2 feet | 2 feet | 2 feet | 2 feet | 2 feet |
| | | | FD | N | N | FD | N | N |
| | | | WO | WO | WO | WO | WO | WO |
| | | | -118.27148 | -118.26733 | -118.24228 | -118.24228 | -118.26336 | -118.27905 |
| | | | 33.72565 | 33.73578 | 33.71468 | 33.71468 | 33.712 | 33.71939 |
| Method | California Toxics Rule Saltwater Continuous Concentration | | | | | | | |
| PCB Congeners - Low resolution (µg/L) | | | | | | | | |
| PCB-018 | SW8270CSIM | -- | -- | 0.00040 U | 0.00040 U | 0.00040 U | 0.00040 U | 0.00040 U |
| PCB-028 | SW8270CSIM | -- | -- | 0.00063 U | 0.00063 U | 0.00064 U | 0.00064 U | 0.00064 U |
| PCB-037 | SW8270CSIM | -- | -- | 0.00046 U | 0.00046 U | 0.00046 U | 0.00046 U | 0.00046 U |
| PCB-044 | SW8270CSIM | -- | -- | 0.00074 U | 0.00074 U | 0.00076 U | 0.00075 U | 0.00075 U |
| PCB-049 | SW8270CSIM | -- | -- | 0.00074 U | 0.00074 U | 0.00076 U | 0.00075 U | 0.00075 U |
| PCB-052 | SW8270CSIM | -- | -- | 0.00049 U | 0.00049 U | 0.00050 U | 0.00049 U | 0.00049 U |
| PCB-066 | SW8270CSIM | -- | -- | 0.00055 U | 0.00055 U | 0.00056 U | 0.00055 U | 0.00055 U |
| PCB-070 | SW8270CSIM | -- | -- | 0.00036 U | 0.00036 U | 0.00037 U | 0.00037 U | 0.00037 U |
| PCB-074 | SW8270CSIM | -- | -- | 0.00041 U | 0.00041 U | 0.00042 U | 0.00041 U | 0.00041 U |
| PCB-077 | SW8270CSIM | -- | -- | 0.00062 U | 0.00062 U | 0.00063 U | 0.00063 U | 0.00063 U |
| PCB-081 | SW8270CSIM | -- | -- | 0.00046 U | 0.00046 U | 0.00047 U | 0.00047 U | 0.00047 U |
| PCB-087 | SW8270CSIM | -- | -- | 0.00048 U | 0.00048 U | 0.00048 U | 0.00048 U | 0.00048 U |
| PCB-099 | SW8270CSIM | -- | -- | 0.00058 U | 0.00058 U | 0.00059 U | 0.00058 U | 0.00058 U |
| PCB-101 | SW8270CSIM | -- | -- | 0.00055 U | 0.00055 U | 0.00056 U | 0.00056 U | 0.00056 U |
| PCB-105 | SW8270CSIM | -- | -- | 0.00036 U | 0.00036 U | 0.00037 U | 0.00036 U | 0.00036 U |
| PCB-110 | SW8270CSIM | -- | -- | 0.00048 U | 0.00048 U | 0.00049 U | 0.00048 U | 0.00048 U |
| PCB-114 | SW8270CSIM | -- | -- | 0.00042 U | 0.00042 U | 0.00043 U | 0.00042 U | 0.00042 U |
| PCB-118 | SW8270CSIM | -- | -- | 0.00047 U | 0.00047 U | 0.00048 U | 0.00047 U | 0.00047 U |
| PCB-119 | SW8270CSIM | -- | -- | 0.00041 U | 0.00041 U | 0.00042 U | 0.00041 U | 0.00041 U |
| PCB-123 | SW8270CSIM | -- | -- | 0.00073 U | 0.00073 U | 0.00074 U | 0.00074 U | 0.00074 U |
| PCB-126 | SW8270CSIM | -- | -- | 0.00052 U | 0.00052 U | 0.00053 U | 0.00052 U | 0.00052 U |
| PCB-128 | SW8270CSIM | -- | -- | 0.00067 U | 0.00067 U | 0.00068 U | 0.00068 U | 0.00068 U |
| PCB-132/153 | SW8270CSIM | -- | -- | 0.00110 U | 0.00110 U | 0.00110 U | 0.00110 U | 0.00110 U |
| PCB-138/158 | SW8270CSIM | -- | -- | 0.00110 U | 0.00110 U | 0.00110 U | 0.00110 U | 0.00110 U |
| PCB-149 | SW8270CSIM | -- | -- | 0.00048 U | 0.00048 U | 0.00049 U | 0.00049 U | 0.00049 U |
| PCB-151 | SW8270CSIM | -- | -- | 0.00058 U | 0.00058 U | 0.00059 U | 0.00059 U | 0.00059 U |
| PCB-156 | SW8270CSIM | -- | -- | 0.00049 U | 0.00049 U | 0.00050 U | 0.00049 U | 0.00049 U |
| PCB-157 | SW8270CSIM | -- | -- | 0.00072 U | 0.00072 U | 0.00073 U | 0.00072 U | 0.00072 U |
| PCB-167 | SW8270CSIM | -- | -- | 0.00083 U | 0.00083 U | 0.00084 U | 0.00083 U | 0.00083 U |
| PCB-168 | SW8270CSIM | -- | -- | 0.00031 U | 0.00031 U | 0.00032 U | 0.00032 U | 0.00032 U |
| PCB-169 | SW8270CSIM | -- | -- | 0.00054 U | 0.00054 U | 0.00055 U | 0.00054 U | 0.00054 U |
| PCB-170 | SW8270CSIM | -- | -- | 0.00054 U | 0.00054 U | 0.00055 U | 0.00054 U | 0.00054 U |
| PCB-177 | SW8270CSIM | -- | -- | 0.00054 U | 0.00054 U | 0.00055 U | 0.00055 U | 0.00055 U |
| PCB-180 | SW8270CSIM | -- | -- | 0.00068 U | 0.00068 U | 0.00070 U | 0.00069 U | 0.00069 U |
| PCB-183 | SW8270CSIM | -- | -- | 0.00051 U | 0.00051 U | 0.00052 U | 0.00051 U | 0.00051 U |

Table 10
Summer 2014 Water Quality Chemistry Results

| FINAL VALIDATED DATA | | | GWMA_2014_SmrDry | GWMA_2014_SmrDry | GWMA_2014_SmrDry | GWMA_2014_SmrDry | GWMA_2014_SmrDry | GWMA_2014_SmrDry |
|---|---|------|-------------------------|-----------------------|-----------------------|-------------------------|-----------------------|-----------------------|
| | | | Inner Harbor - LA | Fish Harbor | Outer Harbor - LA | Outer Harbor - LA | Outer Harbor - LA | Cabrillo Marina |
| | | | IA-RW-06_201409 | FH-RW-07_201409 | OA-RW-08_201409 | OA-RW-08_201409 | OA-RW-09_201409 | CM-RW-10_201409 |
| | | | IA-RW-1006-G-M-20140930 | FH-RW-07-G-S-20140930 | OA-RW-08-G-S-20140930 | OA-RW-1008-G-S-20140930 | OA-RW-09-G-S-20140930 | CM-RW-10-G-S-20140930 |
| | | | 09/30/2014 | 09/30/2014 | 09/30/2014 | 09/30/2014 | 09/30/2014 | 09/30/2014 |
| | | | 30 feet | 2 feet | 2 feet | 2 feet | 2 feet | 2 feet |
| | | | FD | N | N | FD | N | N |
| | | | WO | WO | WO | WO | WO | WO |
| | | | -118.27148 | -118.26733 | -118.24228 | -118.24228 | -118.26336 | -118.27905 |
| | | | 33.72565 | 33.73578 | 33.71468 | 33.71468 | 33.712 | 33.71939 |
| Method | California Toxics Rule Saltwater Continuous Concentration | | | | | | | |
| PCB-187 | SW8270CSIM | -- | -- | 0.00053 U | 0.00053 U | 0.00054 U | 0.00054 U | 0.00054 U |
| PCB-189 | SW8270CSIM | -- | -- | 0.00038 U | 0.00038 U | 0.00039 U | 0.00038 U | 0.00038 U |
| PCB-194 | SW8270CSIM | -- | -- | 0.00040 U | 0.00040 U | 0.00041 U | 0.00040 U | 0.00040 U |
| PCB-195 | SW8270CSIM | -- | -- | 0.00034 U | 0.00034 U | 0.00034 U | 0.00034 U | 0.00034 U |
| PCB-201 | SW8270CSIM | -- | -- | 0.00069 U | 0.00069 U | 0.00070 U | 0.00070 U | 0.00070 U |
| PCB-206 | SW8270CSIM | -- | -- | 0.00024 U | 0.00024 U | 0.00025 U | 0.00025 U | 0.00025 U |
| Total PCB congener - low resolution (U = 0) | -- | 0.03 | -- | 0.00055 U | 0.00055 U | 0.00055 U | 0.00055 U | 0.00055 U |

Table 10
Summer 2014 Water Quality Chemistry Results

| FINAL VALIDATED DATA | | | GWMA_2014_SmrDry | GWMA_2014_SmrDry | GWMA_2014_SmrDry | GWMA_2014_SmrDry | GWMA_2014_SmrDry | GWMA_2014_SmrDry | GWMA_2014_SmrDry |
|---------------------------------------|---|--------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| | | | Cabrillo Beach | Inner Harbor - LB | Inner Harbor - LB | Inner Harbor - LB | Inner Harbor - LB | Outer Harbor - LB | Outer Harbor - LB |
| | | | CB-RW-11_201409 | IB-RW-12_201409 | IB-RW-13_201409 | IB-RW-14_201409 | IB-RW-15_201409 | OB-RW-16_201409 | OB-RW-17_201409 |
| | | | CB-RW-11-G-S-20140930 | IB-RW-12-G-S-20140928 | IB-RW-13-G-S-20140928 | IB-RW-14-G-S-20140928 | IB-RW-15-G-S-20140928 | OB-RW-16-G-S-20140928 | OB-RW-17-G-S-20140926 |
| | | | 09/30/2014 | 09/28/2014 | 09/28/2014 | 09/28/2014 | 09/28/2014 | 09/28/2014 | 09/26/2014 |
| | | | 2 feet | 2 feet | 2 feet | 2 feet | 2 feet | 2 feet | 2 feet |
| | | | N | N | N | N | N | N | N |
| | | | WO | WO | WO | WO | WO | WO | WO |
| | | | -118.2809 | -118.23348 | -118.2162 | -118.23112 | -118.19906 | -118.22144 | -118.18647 |
| | | | 33.17243 | 33.7674 | 33.75367 | 33.74874 | 33.74202 | 33.73129 | 33.72765 |
| Method | California Toxics Rule Saltwater Continuous Concentration | | | | | | | | |
| Conventional Parameters (mg/L) | | | | | | | | | |
| Total suspended solids (surface) | SM2540D | -- | 1.2 | 1.4 | 1.1 | 0.95 U | 1.8 | 0.95 U | 0.95 U |
| Total suspended solids (middle)* | SM2540D | -- | 1.2 | 3.3 | 1.3 | 2.5 | 1.4 | 1.0 | 1.1 |
| Total suspended solids (bottom)* | SM2540D | -- | 7.0 | 3.3 | 2.4 | 1.2 | 1.5 | 4.3 | 3.1 |
| Metals (µg/L) | | | | | | | | | |
| Cadmium | E1640 | -- | 0.0568 | 0.0546 | 0.0498 | 0.0454 | 0.0427 | 0.0421 | 0.0422 U |
| Chromium | E1640 | -- | 0.467 J | 0.587 | 0.566 | 0.569 | 0.523 | 0.472 J | 0.164 U |
| Copper | E1640 | -- | 4.31 | 2.15 | 1.17 | 2.4 | 1.58 | 1.06 | 0.725 J |
| Lead | E1640 | -- | 1.26 | 0.534 | 0.365 | 0.383 | 0.439 | 0.227 | 0.375 |
| Mercury | E1631E | -- | 0.000899 | 0.00131 | 0.000776 | 0.000779 | 0.00102 | 0.000526 | 0.000946 |
| Zinc | E1640 | -- | 17.5 | 6.17 | 2.50 | 2.16 | 3.59 | 3.05 | 3.76 |
| Metals, Dissolved (µg/L) | | | | | | | | | |
| Cadmium | E1640 | 9.3 | 0.0561 | 0.0581 | 0.0477 | 0.0366 | 0.0432 | 0.0450 | 0.0464 U |
| Chromium | E1640 | 50 | 0.367 J | 0.272 J | 0.249 J | 0.274 J | 0.349 J | 0.276 J | 0.164 U |
| Copper | E1640 | 3.1 | 2.86 | 1.38 | 0.766 | 0.964 | 1.28 | 0.852 | 0.473 J |
| Lead | E1640 | 8.1 | 0.236 J | 0.0440 | 0.290 | 0.165 | 0.415 | 0.140 | 0.0974 |
| Mercury | E1631E | 0.94 | 0.000456 U | 0.000416 J | 0.000677 | 0.000675 | 0.000427 J | 0.000282 J | 0.000597 |
| Zinc | E1640 | 81 | 16.3 | 5.33 | 2.68 | 1.57 | 3.06 | 3.52 | 2.29 |
| Pesticides (µg/L) | | | | | | | | | |
| 2,4'-DDD (o,p'-DDD) | SW8081A | -- | 0.00056 U | 0.00057 U | 0.00058 U | 0.00058 U | 0.00058 U | 0.00059 U | 0.00058 U |
| 2,4'-DDE (o,p'-DDE) | SW8081A | -- | 0.00047 U | 0.0035 | 0.0022 | 0.0028 | 0.0024 | 0.0016 J | 0.0037 |
| 2,4'-DDT (o,p'-DDT) | SW8081A | -- | 0.00065 U | 0.00067 U | 0.00069 U | 0.00069 U | 0.00069 U | 0.00069 U | 0.00069 U |
| 4,4'-DDD (p,p'-DDD) | SW8081A | -- | 0.00052 U | 0.00054 U | 0.00055 U | 0.00055 U | 0.00055 U | 0.00055 U | 0.00055 U |
| 4,4'-DDE (p,p'-DDE) | SW8081A | -- | 0.00046 U | 0.00047 U | 0.00048 U | 0.00048 U | 0.00048 U | 0.00048 U | 0.00048 U |
| 4,4'-DDT (p,p'-DDT) | SW8081A | 0.001 | 0.00053 U | 0.00054 U | 0.00055 U | 0.00055 U | 0.00055 U | 0.00056 U | 0.00055 U |
| Chlordane, alpha- (Chlordane, cis-) | SW8081A | -- | 0.00047 U | 0.00048 U | 0.00049 U | 0.00049 U | 0.00049 U | 0.00050 U | 0.00049 U |
| Chlordane, beta- (Chlordane, trans-) | SW8081A | -- | 0.00047 U | 0.00048 U | 0.00049 U | 0.00049 U | 0.00049 U | 0.00049 U | 0.00049 U |
| Dieldrin | SW8081A | 0.0019 | 0.00052 U | 0.00054 U | 0.00055 U | 0.00055 U | 0.00055 U | 0.00055 U | 0.00055 U |
| Nonachlor, cis- | SW8081A | -- | 0.00048 U | 0.00049 U | 0.00050 U | 0.00050 U | 0.00050 U | 0.00051 U | 0.00050 U |
| Nonachlor, trans- | SW8081A | -- | 0.00053 U | 0.00055 U | 0.00068 J | 0.00056 U | 0.00056 U | 0.00061 J | 0.00056 U |
| Oxychlordane | SW8081A | -- | 0.00060 U | 0.00061 U | 0.00063 U | 0.00063 U | 0.00063 U | 0.00063 U | 0.00063 U |
| Toxaphene | SW8081A | 0.0002 | 0.0079 U | 0.0081 U | 0.0082 U | 0.0082 U | 0.0082 U | 0.0083 U | 0.0082 U |
| Total chlordane (U = 0) | | 0.004 | 0.00030 U | 0.00031 U | 0.00068 J | 0.00032 U | 0.00032 U | 0.00061 J | 0.00032 U |
| Total DDx (U = 0) | | -- | 0.00033 U | 0.0035 | 0.0022 | 0.0028 | 0.0024 | 0.0016 J | 0.0037 |

Table 10
Summer 2014 Water Quality Chemistry Results

| FINAL VALIDATED DATA | | | GWMA_2014_SmrDry | GWMA_2014_SmrDry | GWMA_2014_SmrDry | GWMA_2014_SmrDry | GWMA_2014_SmrDry | GWMA_2014_SmrDry | GWMA_2014_SmrDry |
|--|---|----|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| | | | Cabrillo Beach | Inner Harbor - LB | Inner Harbor - LB | Inner Harbor - LB | Inner Harbor - LB | Outer Harbor - LB | Outer Harbor - LB |
| | | | CB-RW-11_201409 | IB-RW-12_201409 | IB-RW-13_201409 | IB-RW-14_201409 | IB-RW-15_201409 | OB-RW-16_201409 | OB-RW-17_201409 |
| | | | CB-RW-11-G-S-20140930 | IB-RW-12-G-S-20140928 | IB-RW-13-G-S-20140928 | IB-RW-14-G-S-20140928 | IB-RW-15-G-S-20140928 | OB-RW-16-G-S-20140928 | OB-RW-17-G-S-20140926 |
| | | | 09/30/2014 | 09/28/2014 | 09/28/2014 | 09/28/2014 | 09/28/2014 | 09/28/2014 | 09/26/2014 |
| | | | 2 feet | 2 feet | 2 feet | 2 feet | 2 feet | 2 feet | 2 feet |
| | | | N | N | N | N | N | N | N |
| | | | WO | WO | WO | WO | WO | WO | WO |
| | | | -118.2809 | -118.23348 | -118.2162 | -118.23112 | -118.19906 | -118.22144 | -118.18647 |
| | | | 33.17243 | 33.7674 | 33.75367 | 33.74874 | 33.74202 | 33.73129 | 33.72765 |
| Method | California Toxics Rule Saltwater Continuous Concentration | | | | | | | | |
| PCB Congeners - Low resolution (µg/L) | | | | | | | | | |
| PCB-018 | SW8270CSIM | -- | 0.00040 U | 0.00041 U | 0.00041 U | 0.00040 U | 0.00042 U | 0.00042 U | 0.00040 U |
| PCB-028 | SW8270CSIM | -- | 0.00064 U | 0.00065 U | 0.00065 U | 0.00064 U | 0.00066 U | 0.00066 U | 0.00063 U |
| PCB-037 | SW8270CSIM | -- | 0.00046 U | 0.00047 U | 0.00047 U | 0.00046 U | 0.00048 U | 0.00048 U | 0.00046 U |
| PCB-044 | SW8270CSIM | -- | 0.00075 U | 0.00077 U | 0.00077 U | 0.00075 U | 0.00078 U | 0.00078 U | 0.00074 U |
| PCB-049 | SW8270CSIM | -- | 0.00075 U | 0.00077 U | 0.00077 U | 0.00075 U | 0.00078 U | 0.00078 U | 0.00074 U |
| PCB-052 | SW8270CSIM | -- | 0.00049 U | 0.00051 U | 0.00051 U | 0.00049 U | 0.00051 U | 0.00051 U | 0.00049 U |
| PCB-066 | SW8270CSIM | -- | 0.00055 U | 0.00057 U | 0.00057 U | 0.00055 U | 0.00057 U | 0.00057 U | 0.00055 U |
| PCB-070 | SW8270CSIM | -- | 0.00037 U | 0.00038 U | 0.00038 U | 0.00037 U | 0.00038 U | 0.00038 U | 0.00036 U |
| PCB-074 | SW8270CSIM | -- | 0.00041 U | 0.00042 U | 0.00042 U | 0.00041 U | 0.00043 U | 0.00043 U | 0.00041 U |
| PCB-077 | SW8270CSIM | -- | 0.00063 U | 0.00065 U | 0.00065 U | 0.00063 U | 0.00065 U | 0.00065 U | 0.00062 U |
| PCB-081 | SW8270CSIM | -- | 0.00047 U | 0.00048 U | 0.00048 U | 0.00047 U | 0.00048 U | 0.00048 U | 0.00046 U |
| PCB-087 | SW8270CSIM | -- | 0.00048 U | 0.00049 U | 0.00049 U | 0.00048 U | 0.00050 U | 0.00050 U | 0.00048 U |
| PCB-099 | SW8270CSIM | -- | 0.00058 U | 0.00060 U | 0.00060 U | 0.00058 U | 0.00060 U | 0.00060 U | 0.00058 U |
| PCB-101 | SW8270CSIM | -- | 0.00056 U | 0.00057 U | 0.00057 U | 0.00056 U | 0.00058 U | 0.00058 U | 0.00055 U |
| PCB-105 | SW8270CSIM | -- | 0.00036 U | 0.00037 U | 0.00037 U | 0.00036 U | 0.00038 U | 0.00038 U | 0.00036 U |
| PCB-110 | SW8270CSIM | -- | 0.00048 U | 0.00050 U | 0.00050 U | 0.00048 U | 0.00050 U | 0.00050 U | 0.00048 U |
| PCB-114 | SW8270CSIM | -- | 0.00042 U | 0.00044 U | 0.00044 U | 0.00042 U | 0.00044 U | 0.00044 U | 0.00042 U |
| PCB-118 | SW8270CSIM | -- | 0.00047 U | 0.00049 U | 0.00049 U | 0.00047 U | 0.00049 U | 0.00049 U | 0.00047 U |
| PCB-119 | SW8270CSIM | -- | 0.00041 U | 0.00043 U | 0.00043 U | 0.00041 U | 0.00043 U | 0.00043 U | 0.00041 U |
| PCB-123 | SW8270CSIM | -- | 0.00074 U | 0.00076 U | 0.00076 U | 0.00074 U | 0.00077 U | 0.00077 U | 0.00073 U |
| PCB-126 | SW8270CSIM | -- | 0.00052 U | 0.00054 U | 0.00054 U | 0.00052 U | 0.00055 U | 0.00055 U | 0.00052 U |
| PCB-128 | SW8270CSIM | -- | 0.00068 U | 0.00070 U | 0.00070 U | 0.00068 U | 0.00070 U | 0.00070 U | 0.00067 U |
| PCB-132/153 | SW8270CSIM | -- | 0.00110 U | 0.00120 U | 0.00120 U | 0.00110 U | 0.00120 U | 0.00120 U | 0.00110 U |
| PCB-138/158 | SW8270CSIM | -- | 0.00110 U | 0.00110 U | 0.00110 U | 0.00110 U | 0.00110 U | 0.00110 U | 0.00110 U |
| PCB-149 | SW8270CSIM | -- | 0.00049 U | 0.00050 U | 0.00050 U | 0.00049 U | 0.00050 U | 0.00050 U | 0.00048 U |
| PCB-151 | SW8270CSIM | -- | 0.00059 U | 0.00061 U | 0.00061 U | 0.00059 U | 0.00061 U | 0.00061 U | 0.00058 U |
| PCB-156 | SW8270CSIM | -- | 0.00049 U | 0.00051 U | 0.00051 U | 0.00049 U | 0.00051 U | 0.00051 U | 0.00049 U |
| PCB-157 | SW8270CSIM | -- | 0.00072 U | 0.00074 U | 0.00074 U | 0.00072 U | 0.00075 U | 0.00075 U | 0.00072 U |
| PCB-167 | SW8270CSIM | -- | 0.00083 U | 0.00086 U | 0.00086 U | 0.00083 U | 0.00087 U | 0.00087 U | 0.00083 U |
| PCB-168 | SW8270CSIM | -- | 0.00032 U | 0.00032 U | 0.00032 U | 0.00032 U | 0.00033 U | 0.00033 U | 0.00031 U |
| PCB-169 | SW8270CSIM | -- | 0.00054 U | 0.00056 U | 0.00056 U | 0.00054 U | 0.00056 U | 0.00056 U | 0.00054 U |
| PCB-170 | SW8270CSIM | -- | 0.00054 U | 0.00056 U | 0.00056 U | 0.00054 U | 0.00056 U | 0.00056 U | 0.00054 U |
| PCB-177 | SW8270CSIM | -- | 0.00055 U | 0.00057 U | 0.00057 U | 0.00055 U | 0.00057 U | 0.00057 U | 0.00054 U |
| PCB-180 | SW8270CSIM | -- | 0.00069 U | 0.00071 U | 0.00071 U | 0.00069 U | 0.00072 U | 0.00072 U | 0.00068 U |
| PCB-183 | SW8270CSIM | -- | 0.00051 U | 0.00053 U | 0.00053 U | 0.00051 U | 0.00053 U | 0.00053 U | 0.00051 U |

Table 10
Summer 2014 Water Quality Chemistry Results

| FINAL VALIDATED DATA | | | GWMA_2014_SmrDry | GWMA_2014_SmrDry | GWMA_2014_SmrDry | GWMA_2014_SmrDry | GWMA_2014_SmrDry | GWMA_2014_SmrDry | GWMA_2014_SmrDry |
|---|---|------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| | | | Cabrillo Beach | Inner Harbor - LB | Inner Harbor - LB | Inner Harbor - LB | Inner Harbor - LB | Outer Harbor - LB | Outer Harbor - LB |
| | | | CB-RW-11_201409 | IB-RW-12_201409 | IB-RW-13_201409 | IB-RW-14_201409 | IB-RW-15_201409 | OB-RW-16_201409 | OB-RW-17_201409 |
| | | | CB-RW-11-G-S-20140930 | IB-RW-12-G-S-20140928 | IB-RW-13-G-S-20140928 | IB-RW-14-G-S-20140928 | IB-RW-15-G-S-20140928 | OB-RW-16-G-S-20140928 | OB-RW-17-G-S-20140926 |
| | | | 09/30/2014 | 09/28/2014 | 09/28/2014 | 09/28/2014 | 09/28/2014 | 09/28/2014 | 09/26/2014 |
| | | | 2 feet | 2 feet | 2 feet | 2 feet | 2 feet | 2 feet | 2 feet |
| | | | N | N | N | N | N | N | N |
| | | | WO | WO | WO | WO | WO | WO | WO |
| | | | -118.2809 | -118.23348 | -118.2162 | -118.23112 | -118.19906 | -118.22144 | -118.18647 |
| | | | 33.17243 | 33.7674 | 33.75367 | 33.74874 | 33.74202 | 33.73129 | 33.72765 |
| Method | California Toxics Rule Saltwater Continuous Concentration | | | | | | | | |
| PCB-187 | SW8270CSIM | -- | 0.00054 U | 0.00055 U | 0.00055 U | 0.00054 U | 0.00056 U | 0.00056 U | 0.00053 U |
| PCB-189 | SW8270CSIM | -- | 0.00038 U | 0.00040 U | 0.00040 U | 0.00038 U | 0.00040 U | 0.00040 U | 0.00038 U |
| PCB-194 | SW8270CSIM | -- | 0.00040 U | 0.00042 U | 0.00042 U | 0.00040 U | 0.00042 U | 0.00042 U | 0.00040 U |
| PCB-195 | SW8270CSIM | -- | 0.00034 U | 0.00035 U | 0.00035 U | 0.00034 U | 0.00035 U | 0.00035 U | 0.00034 U |
| PCB-201 | SW8270CSIM | -- | 0.00070 U | 0.00072 U | 0.00072 U | 0.00070 U | 0.00072 U | 0.00072 U | 0.00069 U |
| PCB-206 | SW8270CSIM | -- | 0.00025 U | 0.00025 U | 0.00025 U | 0.00025 U | 0.00026 U | 0.00026 U | 0.00024 U |
| Total PCB congener - low resolution (U = 0) | -- | 0.03 | 0.00055 U | 0.00060 U | 0.00060 U | 0.00055 U | 0.00060 U | 0.00060 U | 0.00055 U |

Table 10
Summer 2014 Water Quality Chemistry Results

| FINAL VALIDATED DATA | | | GWMA_2014_SmrDry | GWMA_2014_SmrDry | GWMA_2014_SmrDry | GWMA_2014_SmrDry | GWMA_2014_SmrDry | GWMA_2014_SmrDry | Number Analyzed |
|---------------------------------------|---|--------|-------------------------|-----------------------|-----------------------|-----------------------|---------------------------|---------------------------|-----------------|
| | | | Outer Harbor - LB | San Pedro Bay | San Pedro Bay | San Pedro Bay | Los Angeles River Estuary | Los Angeles River Estuary | |
| | | | OB-RW-17_201409 | SP-RW-18_201409 | SP-RW-19_201409 | SP-RW-20_201409 | LE-RW-21_201409 | LE-RW-22_201409 | |
| | | | OB-RW-1017-G-M-20140926 | SP-RW-18-G-S-20140926 | SP-RW-19-G-S-20140926 | SP-RW-20-G-S-20140926 | LE-RW-21-G-S-20140926 | LE-RW-22-G-S-20140926 | |
| | | | 09/26/2014 | 09/26/2014 | 09/26/2014 | 09/26/2014 | 09/26/2014 | 09/26/2014 | |
| | | | 39 feet | 2 feet | 2 feet | 2 feet | 2 feet | 3 feet | |
| | | | FD | N | N | N | N | N | |
| | | | WO | WO | WO | WO | WO | WO | |
| | | | -118.18647 | -118.18125 | -118.13123 | -118.1576 | -118.19283 | -118.20204 | |
| | | | 33.72765 | 33.75335 | 33.73648 | 33.72531 | 33.756 | 33.76123 | |
| | | | | | | | | | |
| Method | California Toxics Rule Saltwater Continuous Concentration | | | | | | | | |
| Conventional Parameters (mg/L) | | | | | | | | | |
| Total suspended solids (surface) | SM2540D | -- | -- | 1.3 | 1.1 | 0.95 U | 1.6 | 1.8 | 23 |
| Total suspended solids (middle)* | SM2540D | -- | 1.1 | 1.7 | 0.95 U | 1.2 | 2.5 | 5.2 | 24 |
| Total suspended solids (bottom)* | SM2540D | -- | -- | 14 | 1.6 | 1.4 | 3.1 | 5.1 | 22 |
| Metals (µg/L) | | | | | | | | | |
| Cadmium | E1640 | -- | -- | 0.0482 U | 0.0429 U | 0.0424 U | 0.0520 U | 0.0571 | 23 |
| Chromium | E1640 | -- | -- | 0.164 U | 0.164 U | 0.164 U | 0.164 U | 0.164 U | 23 |
| Copper | E1640 | -- | -- | 0.766 J | 0.581 J | 0.495 J | 1.44 J | 1.95 J | 23 |
| Lead | E1640 | -- | -- | 0.190 | 0.244 | 0.247 | 0.376 | 0.427 | 23 |
| Mercury | E1631E | -- | -- | 0.00127 | 0.00191 | 0.00109 | 0.00126 | 0.00103 | 23 |
| Zinc | E1640 | -- | -- | 3.46 | 2.30 | 2.08 | 5.69 | 12.2 | 23 |
| Metals, Dissolved (µg/L) | | | | | | | | | |
| Cadmium | E1640 | 9.3 | -- | 0.0535 U | 0.0384 U | 0.0468 U | 0.0575 | 0.0348 U | 23 |
| Chromium | E1640 | 50 | -- | 0.164 U | 0.164 U | 0.164 U | 0.164 U | 0.164 U | 23 |
| Copper | E1640 | 3.1 | -- | 0.666 J | 0.389 J | 0.420 J | 0.929 J | 1.02 J | 23 |
| Lead | E1640 | 8.1 | -- | 0.0618 U | 0.0941 | 0.176 | 0.0862 U | 0.0625 U | 23 |
| Mercury | E1631E | 0.94 | -- | 0.000737 | 0.000584 | 0.000819 | 0.000695 | 0.000906 | 23 |
| Zinc | E1640 | 81 | -- | 3.81 | 1.51 | 1.83 | 4.70 | 4.58 | 23 |
| Pesticides (µg/L) | | | | | | | | | |
| 2,4'-DDD (o,p'-DDD) | SW8081A | -- | -- | 0.00058 U | 0.00058 U | 0.00058 U | 0.00058 U | 0.00058 U | 23 |
| 2,4'-DDE (o,p'-DDE) | SW8081A | -- | -- | 0.0028 | 0.0025 | 0.0027 | 0.0021 | 0.0021 | 23 |
| 2,4'-DDT (o,p'-DDT) | SW8081A | -- | -- | 0.00068 U | 0.00069 U | 0.00069 U | 0.00068 U | 0.00069 U | 23 |
| 4,4'-DDD (p,p'-DDD) | SW8081A | -- | -- | 0.00054 U | 0.00055 U | 0.00055 U | 0.00054 U | 0.00055 U | 23 |
| 4,4'-DDE (p,p'-DDE) | SW8081A | -- | -- | 0.00047 U | 0.00048 U | 0.00048 U | 0.00047 U | 0.00048 U | 23 |
| 4,4'-DDT (p,p'-DDT) | SW8081A | 0.001 | -- | 0.00055 U | 0.00055 U | 0.00055 U | 0.00055 U | 0.00055 U | 23 |
| Chlordane, alpha- (Chlordane, cis-) | SW8081A | -- | -- | 0.00049 U | 0.00049 U | 0.00049 U | 0.00049 U | 0.00049 U | 23 |
| Chlordane, beta- (Chlordane, trans-) | SW8081A | -- | -- | 0.00048 U | 0.00049 U | 0.00049 U | 0.00048 U | 0.00049 U | 23 |
| Dieldrin | SW8081A | 0.0019 | -- | 0.00054 U | 0.00055 U | 0.00055 U | 0.00054 U | 0.00055 U | 23 |
| Nonachlor, cis- | SW8081A | -- | -- | 0.00050 U | 0.00050 U | 0.00050 U | 0.00050 U | 0.00050 U | 23 |
| Nonachlor, trans- | SW8081A | -- | -- | 0.00055 U | 0.00065 J | 0.00056 U | 0.00055 U | 0.00056 U | 23 |
| Oxychlordane | SW8081A | -- | -- | 0.00062 U | 0.00063 U | 0.00063 U | 0.00062 U | 0.00063 U | 23 |
| Toxaphene | SW8081A | 0.0002 | -- | 0.0082 U | 0.0082 U | 0.0082 U | 0.0082 U | 0.0082 U | 23 |
| Total chlordane (U = 0) | | 0.004 | -- | 0.00031 U | 0.00065 J | 0.00032 U | 0.00031 U | 0.00032 U | 23 |
| Total DDx (U = 0) | | -- | -- | 0.0028 | 0.0025 | 0.0027 | 0.0021 | 0.0021 | 23 |

Table 10
Summer 2014 Water Quality Chemistry Results

| FINAL VALIDATED DATA | | | GWMA_2014_SmrDry | GWMA_2014_SmrDry | GWMA_2014_SmrDry | GWMA_2014_SmrDry | GWMA_2014_SmrDry | GWMA_2014_SmrDry | Number Analyzed |
|--|--|----|-------------------------|-----------------------|-----------------------|-----------------------|---------------------------|---------------------------|------------------------|
| | | | Outer Harbor - LB | San Pedro Bay | San Pedro Bay | San Pedro Bay | Los Angeles River Estuary | Los Angeles River Estuary | |
| | | | OB-RW-17_201409 | SP-RW-18_201409 | SP-RW-19_201409 | SP-RW-20_201409 | LE-RW-21_201409 | LE-RW-22_201409 | |
| | | | OB-RW-1017-G-M-20140926 | SP-RW-18-G-S-20140926 | SP-RW-19-G-S-20140926 | SP-RW-20-G-S-20140926 | LE-RW-21-G-S-20140926 | LE-RW-22-G-S-20140926 | |
| | | | 09/26/2014 | 09/26/2014 | 09/26/2014 | 09/26/2014 | 09/26/2014 | 09/26/2014 | |
| | | | 39 feet | 2 feet | 2 feet | 2 feet | 2 feet | 3 feet | |
| | | | FD | N | N | N | N | N | |
| | | | WO | WO | WO | WO | WO | WO | |
| | | | -118.18647 | -118.18125 | -118.13123 | -118.1576 | -118.19283 | -118.20204 | |
| | | | 33.72765 | 33.75335 | 33.73648 | 33.72531 | 33.756 | 33.76123 | |
| Method | California Toxics Rule Saltwater Continuous Concentration | | | | | | | | |
| PCB Congeners - Low resolution (µg/L) | | | | | | | | | |
| PCB-018 | SW8270CSIM | -- | -- | 0.00040 U | 0.00040 U | 0.00040 U | 0.00040 U | 0.00040 U | 23 |
| PCB-028 | SW8270CSIM | -- | -- | 0.00063 U | 0.00063 U | 0.00063 U | 0.00064 U | 0.00063 U | 23 |
| PCB-037 | SW8270CSIM | -- | -- | 0.00046 U | 0.00046 U | 0.00046 U | 0.00046 U | 0.00046 U | 23 |
| PCB-044 | SW8270CSIM | -- | -- | 0.00074 U | 0.00074 U | 0.00074 U | 0.00075 U | 0.00074 U | 23 |
| PCB-049 | SW8270CSIM | -- | -- | 0.00074 U | 0.00074 U | 0.00074 U | 0.00075 U | 0.00074 U | 23 |
| PCB-052 | SW8270CSIM | -- | -- | 0.00049 U | 0.00049 U | 0.00049 U | 0.00049 U | 0.00049 U | 23 |
| PCB-066 | SW8270CSIM | -- | -- | 0.00055 U | 0.00055 U | 0.00055 U | 0.00055 U | 0.00055 U | 23 |
| PCB-070 | SW8270CSIM | -- | -- | 0.00036 U | 0.00036 U | 0.00036 U | 0.00037 U | 0.00036 U | 23 |
| PCB-074 | SW8270CSIM | -- | -- | 0.00041 U | 0.00041 U | 0.00041 U | 0.00041 U | 0.00041 U | 23 |
| PCB-077 | SW8270CSIM | -- | -- | 0.00062 U | 0.00062 U | 0.00062 U | 0.00063 U | 0.00062 U | 23 |
| PCB-081 | SW8270CSIM | -- | -- | 0.00046 U | 0.00046 U | 0.00046 U | 0.00047 U | 0.00046 U | 23 |
| PCB-087 | SW8270CSIM | -- | -- | 0.00048 U | 0.00048 U | 0.00048 U | 0.00048 U | 0.00048 U | 23 |
| PCB-099 | SW8270CSIM | -- | -- | 0.00058 U | 0.00058 U | 0.00058 U | 0.00058 U | 0.00058 U | 23 |
| PCB-101 | SW8270CSIM | -- | -- | 0.00055 U | 0.00055 U | 0.00055 U | 0.00056 U | 0.00055 U | 23 |
| PCB-105 | SW8270CSIM | -- | -- | 0.00036 U | 0.00036 U | 0.00036 U | 0.00036 U | 0.00036 U | 23 |
| PCB-110 | SW8270CSIM | -- | -- | 0.00048 U | 0.00048 U | 0.00048 U | 0.00048 U | 0.00048 U | 23 |
| PCB-114 | SW8270CSIM | -- | -- | 0.00042 U | 0.00042 U | 0.00042 U | 0.00042 U | 0.00042 U | 23 |
| PCB-118 | SW8270CSIM | -- | -- | 0.00047 U | 0.00047 U | 0.00047 U | 0.00047 U | 0.00047 U | 23 |
| PCB-119 | SW8270CSIM | -- | -- | 0.00041 U | 0.00041 U | 0.00041 U | 0.00041 U | 0.00041 U | 23 |
| PCB-123 | SW8270CSIM | -- | -- | 0.00073 U | 0.00073 U | 0.00073 U | 0.00074 U | 0.00073 U | 23 |
| PCB-126 | SW8270CSIM | -- | -- | 0.00052 U | 0.00052 U | 0.00052 U | 0.00052 U | 0.00052 U | 23 |
| PCB-128 | SW8270CSIM | -- | -- | 0.00067 U | 0.00067 U | 0.00067 U | 0.00068 U | 0.00067 U | 23 |
| PCB-132/153 | SW8270CSIM | -- | -- | 0.00110 U | 0.00110 U | 0.00110 U | 0.00110 U | 0.00110 U | 23 |
| PCB-138/158 | SW8270CSIM | -- | -- | 0.00110 U | 0.00110 U | 0.00110 U | 0.00110 U | 0.00110 U | 23 |
| PCB-149 | SW8270CSIM | -- | -- | 0.00048 U | 0.00048 U | 0.00048 U | 0.00049 U | 0.00048 U | 23 |
| PCB-151 | SW8270CSIM | -- | -- | 0.00058 U | 0.00058 U | 0.00058 U | 0.00059 U | 0.00058 U | 23 |
| PCB-156 | SW8270CSIM | -- | -- | 0.00049 U | 0.00049 U | 0.00049 U | 0.00049 U | 0.00049 U | 23 |
| PCB-157 | SW8270CSIM | -- | -- | 0.00072 U | 0.00072 U | 0.00072 U | 0.00072 U | 0.00072 U | 23 |
| PCB-167 | SW8270CSIM | -- | -- | 0.00083 U | 0.00083 U | 0.00083 U | 0.00083 U | 0.00083 U | 23 |
| PCB-168 | SW8270CSIM | -- | -- | 0.00031 U | 0.00031 U | 0.00031 U | 0.00032 U | 0.00031 U | 23 |
| PCB-169 | SW8270CSIM | -- | -- | 0.00054 U | 0.00054 U | 0.00054 U | 0.00054 U | 0.00054 U | 23 |
| PCB-170 | SW8270CSIM | -- | -- | 0.00054 U | 0.00054 U | 0.00054 U | 0.00054 U | 0.00054 U | 23 |
| PCB-177 | SW8270CSIM | -- | -- | 0.00054 U | 0.00054 U | 0.00054 U | 0.00055 U | 0.00054 U | 23 |
| PCB-180 | SW8270CSIM | -- | -- | 0.00068 U | 0.00068 U | 0.00068 U | 0.00069 U | 0.00068 U | 23 |
| PCB-183 | SW8270CSIM | -- | -- | 0.00051 U | 0.00051 U | 0.00051 U | 0.00051 U | 0.00051 U | 23 |

Table 10
Summer 2014 Water Quality Chemistry Results

| FINAL VALIDATED DATA | | | GWMA_2014_SmrDry | GWMA_2014_SmrDry | GWMA_2014_SmrDry | GWMA_2014_SmrDry | GWMA_2014_SmrDry | GWMA_2014_SmrDry | Number Analyzed |
|---|--|------|-------------------------|-----------------------|-----------------------|-----------------------|---------------------------|---------------------------|------------------------|
| | | | Outer Harbor - LB | San Pedro Bay | San Pedro Bay | San Pedro Bay | Los Angeles River Estuary | Los Angeles River Estuary | |
| | | | OB-RW-17_201409 | SP-RW-18_201409 | SP-RW-19_201409 | SP-RW-20_201409 | LE-RW-21_201409 | LE-RW-22_201409 | |
| | | | OB-RW-1017-G-M-20140926 | SP-RW-18-G-S-20140926 | SP-RW-19-G-S-20140926 | SP-RW-20-G-S-20140926 | LE-RW-21-G-S-20140926 | LE-RW-22-G-S-20140926 | |
| | | | 09/26/2014 | 09/26/2014 | 09/26/2014 | 09/26/2014 | 09/26/2014 | 09/26/2014 | |
| | | | 39 feet | 2 feet | 2 feet | 2 feet | 2 feet | 3 feet | |
| | | | FD | N | N | N | N | N | |
| | | | WO | WO | WO | WO | WO | WO | |
| | | | -118.18647 | -118.18125 | -118.13123 | -118.1576 | -118.19283 | -118.20204 | |
| | | | 33.72765 | 33.75335 | 33.73648 | 33.72531 | 33.756 | 33.76123 | |
| Method | California Toxics Rule Saltwater Continuous Concentration | | | | | | | | |
| PCB-187 | SW8270CSIM | -- | -- | 0.00053 U | 0.00053 U | 0.00053 U | 0.00054 U | 0.00053 U | 23 |
| PCB-189 | SW8270CSIM | -- | -- | 0.00038 U | 0.00038 U | 0.00038 U | 0.00038 U | 0.00038 U | 23 |
| PCB-194 | SW8270CSIM | -- | -- | 0.00040 U | 0.00040 U | 0.00040 U | 0.00040 U | 0.00040 U | 23 |
| PCB-195 | SW8270CSIM | -- | -- | 0.00034 U | 0.00034 U | 0.00034 U | 0.00034 U | 0.00034 U | 23 |
| PCB-201 | SW8270CSIM | -- | -- | 0.00069 U | 0.00069 U | 0.00069 U | 0.00070 U | 0.00069 U | 23 |
| PCB-206 | SW8270CSIM | -- | -- | 0.00024 U | 0.00024 U | 0.00024 U | 0.00025 U | 0.00024 U | 23 |
| Total PCB congener - low resolution (U = 0) | -- | 0.03 | -- | 0.00055 U | 0.00055 U | 0.00055 U | 0.00055 U | 0.00055 U | 23 |

Table 10
Summer 2014 Water Quality Chemistry Results

| FINAL VALIDATED DATA | | | | |
|---------------------------------------|---------|---|--|---|
| | Method | California Toxics Rule Saltwater Continuous Concentration | No. of Exceedances Relative to Any Target | Percentage of Exceedances Relative to Any Target |
| Conventional Parameters (mg/L) | | | | |
| Total suspended solids (surface) | SM2540D | -- | -- | -- |
| Total suspended solids (middle)* | SM2540D | -- | -- | -- |
| Total suspended solids (bottom)* | SM2540D | -- | -- | -- |
| Metals (µg/L) | | | | |
| Cadmium | E1640 | -- | -- | -- |
| Chromium | E1640 | -- | -- | -- |
| Copper | E1640 | -- | -- | -- |
| Lead | E1640 | -- | -- | -- |
| Mercury | E1631E | -- | -- | -- |
| Zinc | E1640 | -- | -- | -- |
| Metals, Dissolved (µg/L) | | | | |
| Cadmium | E1640 | 9.3 | 0 | 0% |
| Chromium | E1640 | 50 | 0 | 0% |
| Copper | E1640 | 3.1 | 1 | 4% |
| Lead | E1640 | 8.1 | 0 | 0% |
| Mercury | E1631E | 0.94 | 0 | 0% |
| Zinc | E1640 | 81 | 0 | 0% |
| Pesticides (µg/L) | | | | |
| 2,4'-DDD (o,p'-DDD) | SW8081A | -- | -- | -- |
| 2,4'-DDE (o,p'-DDE) | SW8081A | -- | -- | -- |
| 2,4'-DDT (o,p'-DDT) | SW8081A | -- | -- | -- |
| 4,4'-DDD (p,p'-DDD) | SW8081A | -- | -- | -- |
| 4,4'-DDE (p,p'-DDE) | SW8081A | -- | -- | -- |
| 4,4'-DDT (p,p'-DDT) | SW8081A | 0.001 | 0 | 0% |
| Chlordane, alpha- (Chlordane, cis-) | SW8081A | -- | -- | -- |
| Chlordane, beta- (Chlordane, trans-) | SW8081A | -- | -- | -- |
| Dieldrin | SW8081A | 0.0019 | 23 | 100% |
| Nonachlor, cis- | SW8081A | -- | -- | -- |
| Nonachlor, trans- | SW8081A | -- | -- | -- |
| Oxychlordane | SW8081A | -- | -- | -- |
| Toxaphene | SW8081A | 0.0002 | 23 | 100% |
| Total chlordane (U = 0) | | 0.004 | 3 | 13% |
| Total DDx (U = 0) | | -- | 11 | 48% |

Table 10
Summer 2014 Water Quality Chemistry Results

| FINAL VALIDATED DATA | | | | |
|--|------------|---|--|---|
| | Method | California Toxics Rule Saltwater Continuous Concentration | No. of Exceedances Relative to Any Target | Percentage of Exceedances Relative to Any Target |
| PCB Congeners - Low resolution (µg/L) | | | | |
| PCB-018 | SW8270CSIM | -- | -- | -- |
| PCB-028 | SW8270CSIM | -- | -- | -- |
| PCB-037 | SW8270CSIM | -- | -- | -- |
| PCB-044 | SW8270CSIM | -- | -- | -- |
| PCB-049 | SW8270CSIM | -- | -- | -- |
| PCB-052 | SW8270CSIM | -- | -- | -- |
| PCB-066 | SW8270CSIM | -- | -- | -- |
| PCB-070 | SW8270CSIM | -- | -- | -- |
| PCB-074 | SW8270CSIM | -- | -- | -- |
| PCB-077 | SW8270CSIM | -- | -- | -- |
| PCB-081 | SW8270CSIM | -- | -- | -- |
| PCB-087 | SW8270CSIM | -- | -- | -- |
| PCB-099 | SW8270CSIM | -- | -- | -- |
| PCB-101 | SW8270CSIM | -- | -- | -- |
| PCB-105 | SW8270CSIM | -- | -- | -- |
| PCB-110 | SW8270CSIM | -- | -- | -- |
| PCB-114 | SW8270CSIM | -- | -- | -- |
| PCB-118 | SW8270CSIM | -- | -- | -- |
| PCB-119 | SW8270CSIM | -- | -- | -- |
| PCB-123 | SW8270CSIM | -- | -- | -- |
| PCB-126 | SW8270CSIM | -- | -- | -- |
| PCB-128 | SW8270CSIM | -- | -- | -- |
| PCB-132/153 | SW8270CSIM | -- | -- | -- |
| PCB-138/158 | SW8270CSIM | -- | -- | -- |
| PCB-149 | SW8270CSIM | -- | -- | -- |
| PCB-151 | SW8270CSIM | -- | -- | -- |
| PCB-156 | SW8270CSIM | -- | -- | -- |
| PCB-157 | SW8270CSIM | -- | -- | -- |
| PCB-167 | SW8270CSIM | -- | -- | -- |
| PCB-168 | SW8270CSIM | -- | -- | -- |
| PCB-169 | SW8270CSIM | -- | -- | -- |
| PCB-170 | SW8270CSIM | -- | -- | -- |
| PCB-177 | SW8270CSIM | -- | -- | -- |
| PCB-180 | SW8270CSIM | -- | -- | -- |
| PCB-183 | SW8270CSIM | -- | -- | -- |

Table 10
Summer 2014 Water Quality Chemistry Results

| FINAL VALIDATED DATA | | | | |
|---|------------|---|--|---|
| | | California Toxics Rule Saltwater Continuous Concentration | No. of Exceedances Relative to Any Target | Percentage of Exceedances Relative to Any Target |
| | Method | | | |
| PCB-187 | SW8270CSIM | -- | -- | -- |
| PCB-189 | SW8270CSIM | -- | -- | -- |
| PCB-194 | SW8270CSIM | -- | -- | -- |
| PCB-195 | SW8270CSIM | -- | -- | -- |
| PCB-201 | SW8270CSIM | -- | -- | -- |
| PCB-206 | SW8270CSIM | -- | -- | -- |
| Total PCB congener - low resolution (U = 0) | -- | 0.03 | 23 | 100% |

Table 10
Summer 2014 Water Quality Chemistry Results

Notes:

*The total suspended solid results for samples collected from mid-depth and bottom depth are respectively labelled as "-M-" and "-B-" preceding the sample ID date. They are not direct results of the surface sample IDs indicated in the column headers in this Horizontal coordinate datum is NAD 1983 State Plane California V FIPS 0405 (US Survey Feet).

All undetect results are reported at the method detection limit.

Totals (U=0) are calculated as the sum of all detected results. If all results are not detected, half of the highest reporting limit value is reported as the sum.

Total chlordane is the sum of alpha-chlordane, beta-chlordane, gamma-chlordane, cis-nonachlor, trans-nonachlor, and oxychlordane.

Total DDx is the sum of 4,4'-DDD, 4,4'-DDE, 4,4'-DDT, 2,4'-DDD, 2,4'-DDE, and 2,4'-DDT, if measured.

Total PCB congeners is the sum of all PCB congeners listed in this table.

USEPA Stage 2A data validation was completed by Anchor QEA.

■ Detected concentration is greater than California Toxics Rule Saltwater Continuous Concentration screening level

■ Detected concentration is greater than the Criteria for Protection of Human Health

Italics= Non-detected concentration is above one or more identified screening levels

Bold = detected result

µg/L = micrograms per liter

-- = results not reported or not applicable

FD = field duplicate

J = estimated value

mg/L = milligrams per liter

N = normal environmental sample

NAD = North American Datum

PCB = polychlorinated biphenyls

U = compound analyzed, but not detected above detection limit

USEPA = U.S. Environmental Protection Agency

WO = ocean water matrix

WQ = water quality

Table 11
Fall 2014 Water Quality Field Data

| Station ID | Sample ID | Latitude | Longitude | Date | Time | Depth (m) | DO | pH | Salinity (ppt) | Temperature (°C) | Sample Collected (Y/N) | Description of Sample | | | |
|------------|-----------------------|----------|------------|-----------|-------|-----------|-----|-----|----------------|------------------|------------------------|-----------------------|------|-------|-------|
| | | | | | | | | | | | | Floating Material | Odor | Sheen | Color |
| CS-RW-01 | CS-RW-01-G-S-20141102 | 33.77480 | -118.24536 | 11/2/2014 | 8:52 | 1.0 | 4.3 | 7.8 | 31.9 | 19.8 | Y | Trace | None | None | None |
| CS-RW-01 | CS-RW-01-G-M-20141102 | 33.77480 | -118.24536 | 11/2/2014 | 9:08 | 3.3 | 4.4 | 7.8 | 32.6 | 20.0 | Y | Trace | None | None | None |
| CS-RW-01 | CS-RW-01-G-B-20141102 | 33.77480 | -118.24536 | 11/2/2014 | 9:12 | 5.7 | 4.6 | 7.8 | 33.1 | 20.1 | Y | Trace | None | None | None |
| IA-RW-02 | IA-RW-02-G-S-20141102 | 33.76283 | -118.25434 | 11/2/2014 | 9:56 | 1.0 | 4.4 | 7.8 | 32.4 | 20.1 | Y | Trace | None | None | None |
| IA-RW-02 | IA-RW-02-G-M-20141102 | 33.76283 | -118.25434 | 11/2/2014 | 9:57 | 8.8 | 4.8 | 7.9 | 33.1 | 20.0 | Y | None | None | None | None |
| IA-RW-02 | IA-RW-02-G-B-20141102 | 33.76283 | -118.25434 | 11/2/2014 | 9:58 | 16.7 | 4.3 | 7.9 | 33.1 | 19.6 | Y | None | None | None | None |
| IA-RW-03 | IA-RW-03-G-S-20141102 | 33.76229 | -118.27410 | 11/2/2014 | 10:38 | 1.0 | 7.2 | 7.9 | 33.0 | 20.0 | Y | None | None | None | None |
| IA-RW-03 | IA-RW-03-G-M-20141102 | 33.76229 | -118.27410 | 11/2/2014 | 10:40 | 8.6 | 6.1 | 7.8 | 33.1 | 19.9 | Y | None | None | None | None |
| IA-RW-03 | IA-RW-03-G-B-20141102 | 33.76229 | -118.27410 | 11/2/2014 | 10:41 | 16.3 | 5.3 | 7.8 | 33.1 | 19.6 | Y | Slight | None | None | None |
| IA-RW-04 | IA-RW-04-G-S-20141102 | 33.75390 | -118.27151 | 11/2/2014 | 11:13 | 1.0 | 6.7 | 7.8 | 32.8 | 20.1 | Y | Trace | None | None | None |
| IA-RW-04 | IA-RW-04-G-M-20141102 | 33.75390 | -118.27151 | 11/2/2014 | 11:14 | 9.0 | 6.5 | 7.8 | 33.1 | 19.9 | Y | Trace | None | None | None |
| IA-RW-04 | IA-RW-04-G-B-20141102 | 33.75390 | -118.27151 | 11/2/2014 | 11:14 | 17.1 | 6.5 | 7.9 | 33.2 | 18.7 | Y | Trace | None | None | None |
| IA-RW-05 | IA-RW-05-G-S-20141102 | 33.73244 | -118.25134 | 11/2/2014 | 12:50 | 1.0 | 7.4 | 7.9 | 33.0 | 19.9 | Y | None | None | None | None |
| IA-RW-05 | IA-RW-05-G-M-20141102 | 33.73244 | -118.25134 | 11/2/2014 | 12:51 | 8.6 | 6.7 | 7.9 | 33.2 | 19.0 | Y | None | None | None | None |
| IA-RW-05 | IA-RW-05-G-B-20141102 | 33.73244 | -118.25134 | 11/2/2014 | 12:52 | 16.3 | 6.2 | 7.9 | 33.2 | 19.0 | Y | None | None | None | None |
| IA-RW-06 | IA-RW-06-G-S-20141102 | 33.72596 | -118.27144 | 11/2/2014 | 12:06 | 1.0 | 7.0 | 7.8 | 32.6 | 20.1 | Y | None | None | None | None |
| IA-RW-06 | IA-RW-06-G-M-20141102 | 33.72596 | -118.27144 | 11/2/2014 | 12:07 | 8.6 | 6.6 | 7.9 | 33.1 | 19.5 | Y | None | None | None | None |
| IA-RW-06 | IA-RW-06-G-B-20141102 | 33.72596 | -118.27144 | 11/2/2014 | 12:08 | 16.2 | 6.5 | 7.9 | 33.1 | 18.6 | Y | None | None | None | None |
| FH-RW-07 | FH-RW-07-G-S-20141102 | 33.76580 | -118.26726 | 11/2/2014 | 13:38 | 1.0 | 6.7 | 7.8 | 33.1 | 20.1 | Y | Trace | None | None | None |
| FH-RW-07 | FH-RW-07-G-M-20141102 | 33.76580 | -118.26726 | 11/2/2014 | 13:38 | 3.3 | 6.6 | 7.9 | 33.2 | 19.9 | Y | Trace | None | None | None |
| FH-RW-07 | FH-RW-07-G-B-20141102 | 33.76580 | -118.26726 | 11/2/2014 | 13:40 | 5.7 | 5.9 | 7.8 | 33.1 | 19.7 | Y | Trace | None | None | None |
| OA-RW-08 | OA-RW-08-G-S-20141102 | 33.71594 | -118.24049 | 11/2/2014 | 14:50 | 0.8 | 8.1 | 8.0 | 33.0 | 19.0 | Y | None | None | None | None |
| OA-RW-08 | OA-RW-08-G-M-20141102 | 33.71594 | -118.24049 | 11/2/2014 | 14:55 | 12.5 | 8.0 | 8.0 | 33.0 | 18.7 | Y | None | None | None | None |
| OA-RW-08 | OA-RW-08-G-B-20141102 | 33.71594 | -118.24049 | 11/2/2014 | 15:00 | 25.0 | 8.1 | 8.0 | 33.0 | 17.7 | Y | None | None | None | None |
| OA-RW-09 | OA-RW-09-G-S-20141102 | 33.71178 | -118.26441 | 11/2/2014 | 15:20 | 0.8 | 7.8 | 8.0 | 32.8 | 18.8 | Y | None | None | None | None |
| OA-RW-09 | OA-RW-09-G-M-20141102 | 33.71178 | -118.26441 | 11/2/2014 | 15:25 | 3.5 | 7.8 | 8.0 | 32.8 | 18.7 | Y | None | None | None | None |
| OA-RW-09 | OA-RW-09-G-B-20141102 | 33.71178 | -118.26441 | 11/2/2014 | 15:30 | 6.0 | 7.7 | 8.0 | 32.9 | 18.4 | Y | None | None | None | None |
| CM-RW-10 | CM-RW-10-G-S-20141102 | 33.71925 | -118.27904 | 11/2/2014 | 14:52 | 1.0 | 6.8 | 7.8 | 32.9 | 19.8 | Y | None | None | None | None |
| CM-RW-10 | CM-RW-10-G-M-20141102 | 33.71925 | -118.27904 | 11/2/2014 | 14:55 | 5.7 | 6.6 | 7.8 | 33.1 | 19.6 | Y | None | None | None | None |
| CM-RW-10 | CM-RW-10-G-B-20141102 | 33.71925 | -118.27904 | 11/2/2014 | 14:56 | 10.4 | 6.2 | 7.8 | 33.2 | 19.2 | Y | None | None | None | None |
| CB-RW-11 | CB-RW-11-G-S-20141102 | 33.71180 | -118.28106 | 11/2/2014 | 15:33 | 1.0 | 7.5 | 7.9 | 33.0 | 19.7 | Y | None | None | None | None |
| CB-RW-11 | CB-RW-11-G-M-20141102 | 33.71180 | -118.28106 | 11/2/2014 | 15:34 | 1.8 | 7.3 | 7.9 | 33.0 | 19.7 | Y | None | None | None | None |
| CB-RW-11 | CB-RW-11-G-B-20141102 | 33.71180 | -118.28106 | 11/2/2014 | 15:34 | 2.7 | 7.2 | 7.9 | 33.0 | 19.7 | Y | None | None | None | None |
| IB-RW-12 | IB-RW-12-G-S-20141102 | 33.76842 | -118.22841 | 11/2/2014 | 10:33 | 0.8 | 7.3 | 7.9 | 32.3 | 18.9 | Y | None | None | None | None |
| IB-RW-12 | IB-RW-12-G-M-20141102 | 33.76842 | -118.22841 | 11/2/2014 | 10:35 | 8.3 | 7.5 | 8.0 | 32.6 | 18.8 | Y | None | None | None | None |
| IB-RW-12 | IB-RW-12-G-B-20141102 | 33.76842 | -118.22841 | 11/2/2014 | 10:40 | 16.0 | 7.5 | 7.9 | 32.4 | 18.4 | Y | None | None | None | None |
| IB-RW-13 | IB-RW-13-G-S-20141102 | 33.75354 | -118.21624 | 11/2/2014 | 11:05 | 0.8 | 7.8 | 8.0 | 32.7 | 18.6 | Y | None | None | None | None |
| IB-RW-13 | IB-RW-13-G-M-20141102 | 33.75354 | -118.21624 | 11/2/2014 | 11:10 | 12.0 | 7.7 | 8.0 | 32.8 | 18.3 | Y | None | None | None | None |
| IB-RW-13 | IB-RW-13-G-B-20141102 | 33.75354 | -118.21624 | 11/2/2014 | 11:15 | 23.0 | 7.8 | 8.0 | 32.8 | 18.1 | Y | None | None | None | None |
| IB-RW-14 | IB-RW-14-G-S-20141102 | 33.74872 | -118.23128 | 11/2/2014 | 11:50 | 8.0 | 7.6 | 8.0 | 32.8 | 19.2 | Y | None | None | None | None |
| IB-RW-14 | IB-RW-14-G-M-20141102 | 33.74872 | -118.23128 | 11/2/2014 | 11:55 | 7.8 | 7.5 | 8.0 | 32.8 | 18.7 | Y | None | None | None | None |

Table 11
Fall 2014 Water Quality Field Data

| Station ID | Sample ID | Latitude | Longitude | Date | Time | Depth (m) | DO | pH | Salinity (ppt) | Temperature (°C) | Sample Collected (Y/N) | Description of Sample | | | |
|------------|-----------------------|----------|------------|-----------|-------------|-----------|-----|-----|----------------|------------------|------------------------|-----------------------|------|-------|-------|
| | | | | | | | | | | | | Floating Material | Odor | Sheen | Color |
| IB-RW-14 | IB-RW-14-G-B-20141102 | 33.74872 | -118.23128 | 11/2/2014 | 12:00 | 15.0 | 7.6 | 8.0 | 32.8 | 18.4 | Y | None | None | None | None |
| IB-RW-15 | IB-RW-15-G-S-20141102 | 33.74200 | -118.20147 | 11/2/2014 | 12:30 | 7.5 | 8.2 | 8.0 | 32.7 | 19.0 | Y | None | None | None | None |
| IB-RW-15 | IB-RW-15-G-M-20141102 | 33.74200 | -118.20147 | 11/2/2014 | 12:35 | 10.0 | 8.0 | 8.0 | 32.8 | 18.4 | Y | None | None | None | None |
| IB-RW-15 | IB-RW-15-G-B-20141102 | 33.74200 | -118.20147 | 11/2/2014 | 12:40 | 19.5 | 7.3 | 8.0 | 32.9 | 18.1 | Y | None | None | None | None |
| OB-RW-16 | OB-RW-16-G-S-20141102 | 33.73133 | -118.22414 | 11/2/2014 | 14:10 | 0.8 | 8.2 | 8.0 | 32.8 | 18.8 | Y | None | None | None | None |
| OB-RW-16 | OB-RW-16-G-M-20141102 | 33.73133 | -118.22414 | 11/2/2014 | 14:15 | 6.5 | 8.1 | 8.0 | 32.9 | 18.6 | Y | None | None | None | None |
| OB-RW-16 | OB-RW-16-G-B-20141102 | 33.73133 | -118.22414 | 11/2/2014 | 14:20 | 12.4 | 7.8 | 8.0 | 32.9 | 18.5 | Y | None | None | None | None |
| OB-RW-17 | OB-RW-17-G-S-20141102 | 33.72799 | -118.19555 | 11/2/2014 | 13:25 | 0.8 | 8.2 | 8.0 | 32.4 | 18.7 | Y | None | None | None | None |
| OB-RW-17 | OB-RW-17-G-M-20141102 | 33.72799 | -118.19555 | 11/2/2014 | 13:35 | 10.5 | 7.9 | 8.0 | 32.9 | 18.5 | Y | None | None | None | None |
| OB-RW-17 | OB-RW-17-G-B-20141102 | 33.72799 | -118.19555 | 11/2/2014 | 13:40 | 20.0 | 7.7 | 8.0 | 32.9 | 18.1 | Y | None | None | None | None |
| SP-RW-18 | SP-RW-18-G-S-20141102 | 33.75383 | -118.18133 | 11/2/2014 | 11:34 | 1.0 | 6.8 | 8.2 | 33.6 | 19.4 | Y | None | None | None | None |
| SP-RW-18 | SP-RW-18-G-M-20141102 | 33.75383 | -118.18133 | 11/2/2014 | 11:39 | 6.0 | N/a | N/a | N/a | N/a | N | N/a | N/a | N/a | N/a |
| SP-RW-18 | SP-RW-18-G-B-20141102 | 33.75383 | -118.18133 | 11/2/2014 | 11:44 | 11.0 | N/a | N/a | N/a | N/a | N | N/a | N/a | N/a | N/a |
| SP-RW-19 | SP-RW-19-G-S-20141102 | 33.73667 | -118.13159 | 11/2/2014 | 12:16 | 1.0 | N/a | N/a | N/a | N/a | N | N/a | N/a | N/a | N/a |
| SP-RW-19 | SP-RW-19-G-M-20141102 | 33.73667 | -118.13159 | 11/2/2014 | 12:20 | 4.0 | N/a | N/a | N/a | N/a | N | N/a | N/a | N/a | N/a |
| SP-RW-19 | SP-RW-19-G-B-20141102 | 33.73667 | -118.13159 | 11/2/2014 | 12:25 | 7.5 | N/a | N/a | N/a | N/a | N | N/a | N/a | N/a | N/a |
| SP-RW-20 | SP-RW-20-G-S-20141102 | 33.72548 | -118.15733 | 11/2/2014 | 12:53 | 1.0 | N/a | N/a | N/a | N/a | N | N/a | N/a | N/a | N/a |
| SP-RW-20 | SP-RW-20-G-M-20141102 | 33.72548 | -118.15733 | 11/2/2014 | 12:58 | 8.0 | N/a | N/a | N/a | N/a | N | N/a | N/a | N/a | N/a |
| SP-RW-20 | SP-RW-20-G-B-20141102 | 33.72548 | -118.15733 | 11/2/2014 | 13:05 | 16.0 | N/a | N/a | N/a | N/a | N | N/a | N/a | N/a | N/a |
| LE-RW-21 | LE-RW-21-G-S-20141102 | 33.75644 | -118.19339 | 11/2/2014 | 10:47 | 1.0 | 4.3 | 8.0 | 33.9 | 19.9 | Y | None | None | None | Brown |
| LE-RW-21 | LE-RW-21-G-M-20141102 | 33.75644 | -118.19339 | 11/2/2014 | Too shallow | | | | | | N | N/a | N/a | N/a | N/a |
| LE-RW-21 | LE-RW-21-G-B-20141102 | 33.75644 | -118.19339 | 11/2/2014 | Too shallow | | | | | | N | N/a | N/a | N/a | N/a |
| LE-RW-22 | LE-RW-22-G-S-20141102 | 33.76101 | -118.20211 | 11/2/2014 | 8:42 | 1.0 | 3.9 | 7.9 | 32.2 | 19.1 | Y | Trace | None | None | Brown |
| LE-RW-22 | LE-RW-22-G-M-20141102 | 33.76101 | -118.20211 | 11/2/2014 | 8:56 | 1.5 | 4.0 | 7.9 | 32.3 | 19.1 | Y | Trace | None | None | Brown |
| LE-RW-22 | LE-RW-22-G-B-20141102 | 33.76101 | -118.20211 | 11/2/2014 | 8:59 | 1.7 | 4.0 | 7.9 | 32.3 | 19.1 | Y | Trace | None | None | Brown |

Notes:

* YSI cable sheared off, and the team was instructed to continue with samples.

DO = dissolved oxygen

m = meter

N/a = not applicable

ppt = parts per thousand

Table 12
Fall 2014 Water Quality Chemistry Results

| FINAL VALIDATED DATA | | | | Task | GWMA_2014_FallWet | GWMA_2014_FallWet | GWMA_2014_FallWet | GWMA_2014_FallWet | GWMA_2014_FallWet | GWMA_2014_FallWet |
|--|------------|--------|---------|--|-----------------------|-----------------------|-----------------------|-----------------------|-------------------------|-----------------------|
| | | | | Area | Consolidated Slip | Inner Harbor - LA | Inner Harbor - LA | Inner Harbor - LA | Inner Harbor - LA | Inner Harbor - LA |
| | | | | Location ID | CS-RW-01_201411 | IA-RW-02_201411 | IA-RW-03_201411 | IA-RW-04_201411 | IA-RW-04_201411 | IA-RW-05_201411 |
| | | | | Sample ID | CS-RW-01-G-S-20141102 | IA-RW-02-G-S-20141102 | IA-RW-03-G-S-20141102 | IA-RW-04-G-S-20141102 | IA-RW-1004-G-S-20141102 | IA-RW-05-G-S-20141102 |
| | | | | Sample Date | 11/02/2014 | 11/02/2014 | 11/02/2014 | 11/02/2014 | 11/02/2014 | 11/02/2014 |
| | | | | Depth | 1 m | 1 m | 1 m | 1 m | 1 m | 1 m |
| | | | | Sample Type | N | N | N | N | FD | N |
| | | | | Matrix | WO | WO | WO | WO | WO | WO |
| | | | | X | -118.24536 | -118.25434 | -118.2741 | -118.27151 | -118.27151 | -118.25134 |
| | | | | Y | 33.7748 | 33.76283 | 33.76229 | 33.7539 | 33.7539 | 33.73244 |
| | | | | Method | | | | | | |
| | | | | California Toxics Rule Saltwater Continuous Concentration | | | | | | |
| | | | | Criteria for Protection of Human Health | | | | | | |
| Conventional Parameters (mg/L) | | | | | | | | | | |
| Total suspended solids (surface) | SM2540D | -- | -- | 1.7 | 1.0 | 1.6 | 1.1 | 0.95 U | 1.1 | |
| Total suspended solids (middle)* | SM2540D | -- | -- | 1.7 | 0.95 U | 1.6 | 1.2 | -- | 0.95 U | |
| Total suspended solids (bottom)* | SM2540D | -- | -- | 0.95 U | 1.4 | 1.3 | 1.0 | -- | 1.0 | |
| Metals (µg/L) | | | | | | | | | | |
| Cadmium | E1640 | -- | -- | 0.0809 | 0.0723 | 0.0541 | 0.0650 | -- | 0.0441 | |
| Chromium | E1640 | -- | -- | 0.164 U | 0.164 U | 0.164 U | 0.164 U | -- | 0.164 U | |
| Copper | E1640 | -- | -- | 3.68 J | 3.26 J | 2.39 J | 3.04 J | -- | 1.00 J | |
| Lead | E1640 | -- | -- | 0.584 | 0.294 | 0.190 | 0.298 | -- | 0.137 | |
| Mercury | E1631E | -- | -- | 0.00221 | 0.00162 | 0.00157 | 0.00175 | -- | 0.00133 | |
| Zinc | E1640 | -- | -- | 26.5 J | 19.1 J | 7.48 J | 18.6 J | -- | 4.67 J | |
| Metals, Dissolved (µg/L) | | | | | | | | | | |
| Cadmium | E1640 | 9.3 | -- | 0.0864 | 0.0778 | 0.0653 | 0.0766 | -- | 0.0509 | |
| Chromium | E1640 | 50 | -- | 0.164 U | 0.164 U | 0.164 U | 0.164 U | -- | 0.164 U | |
| Copper | E1640 | 3.1 | -- | 2.71 | 2.54 | 1.66 | 2.35 | -- | 0.663 | |
| Lead | E1640 | 8.1 | -- | 0.104 | 0.0692 | 0.0427 | 0.0583 | -- | 0.0186 J | |
| Mercury | E1631E | 0.94 | 0.051 | 0.000637 | 0.000637 | 0.000807 | 0.000476 J | -- | 0.000627 | |
| Zinc | E1640 | 81 | -- | 24.1 | 17.9 | 6.66 | 17.0 | -- | 3.77 | |
| Pesticides (µg/L) | | | | | | | | | | |
| 2,4'-DDD (o,p'-DDD) | SW8081A | -- | -- | 0.00056 U | 0.00056 U | 0.00056 U | 0.00056 U | -- | 0.00056 U | |
| 2,4'-DDE (o,p'-DDE) | SW8081A | -- | -- | 0.00047 U | 0.00047 U | 0.00047 U | 0.00047 U | -- | 0.00047 U | |
| 2,4'-DDT (o,p'-DDT) | SW8081A | -- | -- | 0.00065 U | 0.00066 U | 0.00066 U | 0.00066 U | -- | 0.00065 U | |
| 4,4'-DDD (p,p'-DDD) | SW8081A | -- | -- | 0.00052 U | 0.00053 U | 0.00053 U | 0.00053 U | -- | 0.00052 U | |
| 4,4'-DDE (p,p'-DDE) | SW8081A | -- | -- | 0.00046 U | 0.00046 U | 0.00046 U | 0.00046 U | -- | 0.00046 U | |
| 4,4'-DDT (p,p'-DDT) | SW8081A | 0.001 | 0.00059 | 0.00053 U | 0.00053 U | 0.00053 U | 0.00053 U | -- | 0.00053 U | |
| Chlordane, alpha- (Chlordane, cis-) | SW8081A | -- | -- | 0.00047 U | 0.00047 U | 0.00047 U | 0.00047 U | -- | 0.00047 U | |
| Chlordane, beta- (Chlordane, trans-) | SW8081A | -- | -- | 0.00047 U | 0.00047 U | 0.00047 U | 0.00047 U | -- | 0.00047 U | |
| Dieldrin | SW8081A | 0.0019 | 0.00014 | 0.00052 U | 0.00053 U | 0.00053 U | 0.00053 U | -- | 0.00052 U | |
| Nonachlor, cis- | SW8081A | -- | -- | 0.00048 U | 0.00048 U | 0.00048 U | 0.00048 U | -- | 0.00048 U | |
| Nonachlor, trans- | SW8081A | -- | -- | 0.00053 U | 0.00054 U | 0.00054 U | 0.00054 U | -- | 0.00053 U | |
| Oxychlordane | SW8081A | -- | -- | 0.00060 U | 0.00060 U | 0.00060 U | 0.00060 U | -- | 0.00060 U | |
| Toxaphene | SW8081A | 0.0002 | -- | 0.0079 U | 0.0079 U | 0.0079 U | 0.0079 U | -- | 0.0079 U | |
| Total chlordane (U = 0) | | 0.004 | 0.00059 | 0.00030 U | 0.00030 U | 0.00030 U | 0.00030 U | -- | 0.00030 U | |
| Total DDX (U = 0) | | 0.001 | 0.00059 | 0.00033 U | 0.00033 U | 0.00033 U | 0.00033 U | -- | 0.00033 U | |
| PCB Congeners - Low resolution (µg/L) | | | | | | | | | | |
| PCB-018 | SW8270CSIM | -- | -- | 0.00040 U | 0.00040 U | 0.00040 U | 0.00040 U | -- | 0.00040 U | |
| PCB-028 | SW8270CSIM | -- | -- | 0.00063 U | 0.00064 U | 0.00063 U | 0.00064 U | -- | 0.00064 U | |
| PCB-037 | SW8270CSIM | -- | -- | 0.00046 U | 0.00046 U | 0.00046 U | 0.00046 U | -- | 0.00046 U | |
| PCB-044 | SW8270CSIM | -- | -- | 0.00074 U | 0.00075 U | 0.00074 U | 0.00075 U | -- | 0.00075 U | |

Table 12
Fall 2014 Water Quality Chemistry Results

| FINAL VALIDATED DATA | | | | Task | GWMA_2014_FallWet | GWMA_2014_FallWet | GWMA_2014_FallWet | GWMA_2014_FallWet | GWMA_2014_FallWet | GWMA_2014_FallWet |
|---|------------|------|---------|--|--|-----------------------|-----------------------|-----------------------|-------------------------|-----------------------|
| | | | | Area | Consolidated Slip | Inner Harbor - LA | Inner Harbor - LA | Inner Harbor - LA | Inner Harbor - LA | Inner Harbor - LA |
| | | | | Location ID | CS-RW-01_201411 | IA-RW-02_201411 | IA-RW-03_201411 | IA-RW-04_201411 | IA-RW-04_201411 | IA-RW-05_201411 |
| | | | | Sample ID | CS-RW-01-G-S-20141102 | IA-RW-02-G-S-20141102 | IA-RW-03-G-S-20141102 | IA-RW-04-G-S-20141102 | IA-RW-1004-G-S-20141102 | IA-RW-05-G-S-20141102 |
| | | | | Sample Date | 11/02/2014 | 11/02/2014 | 11/02/2014 | 11/02/2014 | 11/02/2014 | 11/02/2014 |
| | | | | Depth | 1 m | 1 m | 1 m | 1 m | 1 m | 1 m |
| | | | | Sample Type | N | N | N | N | FD | N |
| | | | | Matrix | WO | WO | WO | WO | WO | WO |
| | | | | X | -118.24536 | -118.25434 | -118.2741 | -118.27151 | -118.27151 | -118.25134 |
| | | | | Y | 33.7748 | 33.76283 | 33.76229 | 33.7539 | 33.7539 | 33.73244 |
| | | | | California Toxics Rule Saltwater Continuous Concentration | Criteria for Protection of Human Health | | | | | |
| Method | | | | | | | | | | |
| PCB-049 | SW8270CSIM | -- | -- | 0.00074 U | 0.00075 U | 0.00074 U | 0.00075 U | -- | 0.00075 U | |
| PCB-052 | SW8270CSIM | -- | -- | 0.00049 U | 0.00049 U | 0.00049 U | 0.00049 U | -- | 0.00049 U | |
| PCB-066 | SW8270CSIM | -- | -- | 0.00055 U | 0.00055 U | 0.00055 U | 0.00055 U | -- | 0.00055 U | |
| PCB-070 | SW8270CSIM | -- | -- | 0.00036 U | 0.00037 U | 0.00036 U | 0.00037 U | -- | 0.00037 U | |
| PCB-074 | SW8270CSIM | -- | -- | 0.00041 U | 0.00041 U | 0.00041 U | 0.00041 U | -- | 0.00041 U | |
| PCB-077 | SW8270CSIM | -- | -- | 0.00062 U | 0.00063 U | 0.00062 U | 0.00063 U | -- | 0.00063 U | |
| PCB-081 | SW8270CSIM | -- | -- | 0.00046 U | 0.00047 U | 0.00046 U | 0.00047 U | -- | 0.00047 U | |
| PCB-087 | SW8270CSIM | -- | -- | 0.00048 U | 0.00048 U | 0.00048 U | 0.00048 U | -- | 0.00048 U | |
| PCB-099 | SW8270CSIM | -- | -- | 0.00058 U | 0.00058 U | 0.00058 U | 0.00058 U | -- | 0.00058 U | |
| PCB-101 | SW8270CSIM | -- | -- | 0.00055 U | 0.00056 U | 0.00055 U | 0.00056 U | -- | 0.00056 U | |
| PCB-105 | SW8270CSIM | -- | -- | 0.00036 U | 0.00036 U | 0.00036 U | 0.00036 U | -- | 0.00036 U | |
| PCB-110 | SW8270CSIM | -- | -- | 0.00048 U | 0.00048 U | 0.00048 U | 0.00048 U | -- | 0.00048 U | |
| PCB-114 | SW8270CSIM | -- | -- | 0.00042 U | 0.00042 U | 0.00042 U | 0.00042 U | -- | 0.00042 U | |
| PCB-118 | SW8270CSIM | -- | -- | 0.00047 U | 0.00047 U | 0.00047 U | 0.00047 U | -- | 0.00047 U | |
| PCB-119 | SW8270CSIM | -- | -- | 0.00041 U | 0.00041 U | 0.00041 U | 0.00041 U | -- | 0.00041 U | |
| PCB-123 | SW8270CSIM | -- | -- | 0.00073 U | 0.00074 U | 0.00073 U | 0.00074 U | -- | 0.00074 U | |
| PCB-126 | SW8270CSIM | -- | -- | 0.00052 U | 0.00052 U | 0.00052 U | 0.00052 U | -- | 0.00052 U | |
| PCB-128 | SW8270CSIM | -- | -- | 0.00067 U | 0.00068 U | 0.00067 U | 0.00068 U | -- | 0.00068 U | |
| PCB-132/153 | SW8270CSIM | -- | -- | 0.0011 U | 0.0011 U | 0.0011 U | 0.0011 U | -- | 0.0011 U | |
| PCB-138/158 | SW8270CSIM | -- | -- | 0.0011 U | 0.0011 U | 0.0011 U | 0.0011 U | -- | 0.0011 U | |
| PCB-149 | SW8270CSIM | -- | -- | 0.00048 U | 0.00049 U | 0.00048 U | 0.00049 U | -- | 0.00049 U | |
| PCB-151 | SW8270CSIM | -- | -- | 0.00058 U | 0.00059 U | 0.00058 U | 0.00059 U | -- | 0.00059 U | |
| PCB-156 | SW8270CSIM | -- | -- | 0.00049 U | 0.00049 U | 0.00049 U | 0.00049 U | -- | 0.00049 U | |
| PCB-157 | SW8270CSIM | -- | -- | 0.00072 U | 0.00072 U | 0.00072 U | 0.00072 U | -- | 0.00072 U | |
| PCB-167 | SW8270CSIM | -- | -- | 0.00083 U | 0.00083 U | 0.00083 U | 0.00083 U | -- | 0.00083 U | |
| PCB-168 | SW8270CSIM | -- | -- | 0.00031 U | 0.00032 U | 0.00031 U | 0.00032 U | -- | 0.00032 U | |
| PCB-169 | SW8270CSIM | -- | -- | 0.00054 U | 0.00054 U | 0.00054 U | 0.00054 U | -- | 0.00054 U | |
| PCB-170 | SW8270CSIM | -- | -- | 0.00054 U | 0.00054 U | 0.00054 U | 0.00054 U | -- | 0.00054 U | |
| PCB-177 | SW8270CSIM | -- | -- | 0.00054 U | 0.00055 U | 0.00054 U | 0.00055 U | -- | 0.00055 U | |
| PCB-180 | SW8270CSIM | -- | -- | 0.00068 U | 0.00069 U | 0.00068 U | 0.00069 U | -- | 0.00069 U | |
| PCB-183 | SW8270CSIM | -- | -- | 0.00051 U | 0.00051 U | 0.00051 U | 0.00051 U | -- | 0.00051 U | |
| PCB-187 | SW8270CSIM | -- | -- | 0.00053 U | 0.00054 U | 0.00053 U | 0.00054 U | -- | 0.00054 U | |
| PCB-189 | SW8270CSIM | -- | -- | 0.00038 U | 0.00038 U | 0.00038 U | 0.00038 U | -- | 0.00038 U | |
| PCB-194 | SW8270CSIM | -- | -- | 0.00040 U | 0.00040 U | 0.00040 U | 0.00040 U | -- | 0.00040 U | |
| PCB-195 | SW8270CSIM | -- | -- | 0.00034 U | 0.00034 U | 0.00034 U | 0.00034 U | -- | 0.00034 U | |
| PCB-201 | SW8270CSIM | -- | -- | 0.00069 U | 0.00070 U | 0.00069 U | 0.00070 U | -- | 0.00070 U | |
| PCB-206 | SW8270CSIM | -- | -- | 0.00024 U | 0.00025 U | 0.00024 U | 0.00025 U | -- | 0.00025 U | |
| Total PCB congener - low resolution (U = 0) | | 0.03 | 0.00017 | 0.00055 U | 0.00055 U | 0.00055 U | 0.00055 U | -- | 0.00055 U | |

Table 12
Fall 2014 Water Quality Chemistry Results

| FINAL VALIDATED DATA | | | | Task | GWMA_2014_FallWet | GWMA_2014_FallWet | GWMA_2014_FallWet | GWMA_2014_FallWet | GWMA_2014_FallWet | GWMA_2014_FallWet |
|--|------------|--------|---------|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| | | | | Area | Inner Harbor - LA | Fish Harbor | Outer Harbor - LA | Outer Harbor - LA | Cabrillo Marina | Cabrillo Beach |
| | | | | Location ID | IA-RW-06_201411 | FH-RW-07_201411 | OA-RW-08_201411 | OA-RW-09_201411 | CM-RW-10_201411 | CB-RW-11_201411 |
| | | | | Sample ID | IA-RW-06-G-S-20141102 | FH-RW-07-G-S-20141102 | OA-RW-08-G-S-20141102 | OA-RW-09-G-S-20141102 | CM-RW-10-G-S-20141102 | CB-RW-11-G-S-20141102 |
| | | | | Sample Date | 11/02/2014 | 11/02/2014 | 11/02/2014 | 11/02/2014 | 11/02/2014 | 11/02/2014 |
| | | | | Depth | 1 m | 1 m | 0.75 m | 0.75 m | 1 m | 1 m |
| | | | | Sample Type | N | N | N | N | N | N |
| | | | | Matrix | WO | WO | WO | WO | WO | WO |
| | | | | X | -118.27144 | -118.26726 | -118.24049 | -118.26441 | -118.27904 | -118.28106 |
| | | | | Y | 33.72596 | 33.7658 | 33.71594 | 33.71178 | 33.71925 | 33.7118 |
| | | | | Method | | | | | | |
| | | | | California Toxics Rule Saltwater Continuous Concentration | | | | | | |
| | | | | Criteria for Protection of Human Health | | | | | | |
| Conventional Parameters (mg/L) | | | | | | | | | | |
| Total suspended solids (surface) | SM2540D | -- | -- | | 1.0 | 2.7 | 0.95 U | 1.6 | 1.4 | 1.1 |
| Total suspended solids (middle)* | SM2540D | -- | -- | | 1.1 | 2.5 | 1.0 | 3.3 | 2.0 | 1.7 |
| Total suspended solids (bottom)* | SM2540D | -- | -- | | 0.95 U | 4.0 | 1.0 | 6.2 | 3.4 | 2.7 |
| Metals (µg/L) | | | | | | | | | | |
| Cadmium | E1640 | -- | -- | | 0.0601 | 0.0643 | 0.0300 | 0.0525 | 0.0575 | 0.0577 |
| Chromium | E1640 | -- | -- | | 0.164 U | 0.164 U | 0.164 U | 0.164 U | 0.164 U | 0.164 U |
| Copper | E1640 | -- | -- | | 2.65 J | 4.31 J | 0.247 J | 2.03 J | 4.84 J | 2.42 J |
| Lead | E1640 | -- | -- | | 0.223 | 0.347 | 0.045 | 0.221 | 0.132 | 0.129 |
| Mercury | E1631E | -- | -- | | 0.000969 | 0.00738 | 0.00077 | 0.00164 | 0.00139 | 0.00186 |
| Zinc | E1640 | -- | -- | | 13.6 J | 11.9 J | 0.788 U | 5.45 J | 16.4 J | 8.87 J |
| Metals, Dissolved (µg/L) | | | | | | | | | | |
| Cadmium | E1640 | 9.3 | -- | | 0.0636 | 0.0670 | 0.0268 J | 0.0501 | 0.0256 J | 0.0653 |
| Chromium | E1640 | 50 | -- | | 0.164 U | 0.164 U | 0.164 U | 0.164 U | 0.164 U | 0.164 U |
| Copper | E1640 | 3.1 | -- | | 1.84 | 2.59 | 0.177 | 1.14 | 2.30 | 1.58 |
| Lead | E1640 | 8.1 | -- | | 0.0481 | 0.0458 | 0.0135 U | 0.0245 J | 0.0135 U | 0.0215 J |
| Mercury | E1631E | 0.94 | 0.051 | | 0.000533 | 0.000697 | 0.000501 | 0.000510 | 0.000870 | 0.00123 |
| Zinc | E1640 | 81 | -- | | 12.7 | 10.5 | 0.985 | 4.93 | 1.69 | 8.18 |
| Pesticides (µg/L) | | | | | | | | | | |
| 2,4'-DDD (o,p'-DDD) | SW8081A | -- | -- | | 0.00056 U | 0.00056 U | 0.00056 U | 0.00056 U | 0.00056 U | 0.00056 U |
| 2,4'-DDE (o,p'-DDE) | SW8081A | -- | -- | | 0.00047 U | 0.00047 U | 0.00047 U | 0.00047 U | 0.00047 U | 0.00047 U |
| 2,4'-DDT (o,p'-DDT) | SW8081A | -- | -- | | 0.00066 U | 0.00065 U | 0.00065 U | 0.00065 U | 0.00066 U | 0.00066 U |
| 4,4'-DDD (p,p'-DDD) | SW8081A | -- | -- | | 0.00053 U | 0.00052 U | 0.00052 U | 0.00052 U | 0.00053 U | 0.00053 U |
| 4,4'-DDE (p,p'-DDE) | SW8081A | -- | -- | | 0.00046 U | 0.00046 U | 0.00046 U | 0.00046 U | 0.00046 U | 0.00046 U |
| 4,4'-DDT (p,p'-DDT) | SW8081A | 0.001 | 0.00059 | | 0.00053 U | 0.00053 U | 0.00053 U | 0.00053 U | 0.00053 U | 0.00053 U |
| Chlordane, alpha- (Chlordane, cis-) | SW8081A | -- | -- | | 0.00047 U | 0.00047 U | 0.00047 U | 0.00047 U | 0.00047 U | 0.00047 U |
| Chlordane, beta- (Chlordane, trans-) | SW8081A | -- | -- | | 0.00047 U | 0.00047 U | 0.00047 U | 0.00047 U | 0.00047 U | 0.00047 U |
| Dieldrin | SW8081A | 0.0019 | 0.00014 | | 0.00053 U | 0.00052 U | 0.00052 U | 0.00052 U | 0.00053 U | 0.00053 U |
| Nonachlor, cis- | SW8081A | -- | -- | | 0.00048 U | 0.00048 U | 0.00048 U | 0.00048 U | 0.00048 U | 0.00048 U |
| Nonachlor, trans- | SW8081A | -- | -- | | 0.00054 U | 0.00053 U | 0.00053 U | 0.00053 U | 0.00054 U | 0.00054 U |
| Oxychlordane | SW8081A | -- | -- | | 0.00060 U | 0.00060 U | 0.00060 U | 0.00060 U | 0.00060 U | 0.00060 U |
| Toxaphene | SW8081A | 0.0002 | -- | | 0.0079 U | 0.0079 U | 0.0079 U | 0.0079 U | 0.0079 U | 0.0079 U |
| Total chlordane (U = 0) | | 0.004 | 0.00059 | | 0.00030 U | 0.00030 U | 0.00030 U | 0.00030 U | 0.00030 U | 0.00030 U |
| Total DDx (U = 0) | | 0.001 | 0.00059 | | 0.00033 U | 0.00033 U | 0.00033 U | 0.00033 U | 0.00033 U | 0.00033 U |
| PCB Congeners - Low resolution (µg/L) | | | | | | | | | | |
| PCB-018 | SW8270CSIM | -- | -- | | 0.00040 U | 0.00040 U | 0.00040 U | 0.00040 U | 0.00040 U | 0.00040 U |
| PCB-028 | SW8270CSIM | -- | -- | | 0.00064 U | 0.00064 U | 0.00063 U | 0.00063 U | 0.00064 U | 0.00063 U |
| PCB-037 | SW8270CSIM | -- | -- | | 0.00046 U | 0.00046 U | 0.00046 U | 0.00046 U | 0.00046 U | 0.00046 U |
| PCB-044 | SW8270CSIM | -- | -- | | 0.00075 U | 0.00075 U | 0.00074 U | 0.00074 U | 0.00075 U | 0.00074 U |

Table 12
Fall 2014 Water Quality Chemistry Results

| FINAL VALIDATED DATA | | | | Task | GWMA_2014_FallWet | GWMA_2014_FallWet | GWMA_2014_FallWet | GWMA_2014_FallWet | GWMA_2014_FallWet | GWMA_2014_FallWet |
|---|------------|----|----|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| | | | | Area | Inner Harbor - LA | Fish Harbor | Outer Harbor - LA | Outer Harbor - LA | Cabrillo Marina | Cabrillo Beach |
| | | | | Location ID | IA-RW-06_201411 | FH-RW-07_201411 | OA-RW-08_201411 | OA-RW-09_201411 | CM-RW-10_201411 | CB-RW-11_201411 |
| | | | | Sample ID | IA-RW-06-G-S-20141102 | FH-RW-07-G-S-20141102 | OA-RW-08-G-S-20141102 | OA-RW-09-G-S-20141102 | CM-RW-10-G-S-20141102 | CB-RW-11-G-S-20141102 |
| | | | | Sample Date | 11/02/2014 | 11/02/2014 | 11/02/2014 | 11/02/2014 | 11/02/2014 | 11/02/2014 |
| | | | | Depth | 1 m | 1 m | 0.75 m | 0.75 m | 1 m | 1 m |
| | | | | Sample Type | N | N | N | N | N | N |
| | | | | Matrix | WO | WO | WO | WO | WO | WO |
| | | | | X | -118.27144 | -118.26726 | -118.24049 | -118.26441 | -118.27904 | -118.28106 |
| | | | | Y | 33.72596 | 33.7658 | 33.71594 | 33.71178 | 33.71925 | 33.7118 |
| | | | | California Toxics Rule Saltwater Continuous Concentration | | | | | | |
| | | | | Criteria for Protection of Human Health | | | | | | |
| | | | | Method | | | | | | |
| PCB-049 | SW8270CSIM | -- | -- | 0.00075 U | 0.00075 U | 0.00074 U | 0.00074 U | 0.00075 U | 0.00074 U | |
| PCB-052 | SW8270CSIM | -- | -- | 0.00049 U | 0.00049 U | 0.00049 U | 0.00049 U | 0.00049 U | 0.00049 U | |
| PCB-066 | SW8270CSIM | -- | -- | 0.00055 U | 0.00055 U | 0.00055 U | 0.00055 U | 0.00055 U | 0.00055 U | |
| PCB-070 | SW8270CSIM | -- | -- | 0.00037 U | 0.00037 U | 0.00036 U | 0.00036 U | 0.00037 U | 0.00036 U | |
| PCB-074 | SW8270CSIM | -- | -- | 0.00041 U | 0.00041 U | 0.00041 U | 0.00041 U | 0.00041 U | 0.00041 U | |
| PCB-077 | SW8270CSIM | -- | -- | 0.00063 U | 0.00063 U | 0.00062 U | 0.00062 U | 0.00063 U | 0.00062 U | |
| PCB-081 | SW8270CSIM | -- | -- | 0.00047 U | 0.00047 U | 0.00046 U | 0.00046 U | 0.00047 U | 0.00046 U | |
| PCB-087 | SW8270CSIM | -- | -- | 0.00048 U | 0.00048 U | 0.00048 U | 0.00048 U | 0.00048 U | 0.00048 U | |
| PCB-099 | SW8270CSIM | -- | -- | 0.00058 U | 0.00058 U | 0.00058 U | 0.00058 U | 0.00058 U | 0.00058 U | |
| PCB-101 | SW8270CSIM | -- | -- | 0.00056 U | 0.00056 U | 0.00055 U | 0.00055 U | 0.00056 U | 0.00055 U | |
| PCB-105 | SW8270CSIM | -- | -- | 0.00036 U | 0.00036 U | 0.00036 U | 0.00036 U | 0.00036 U | 0.00036 U | |
| PCB-110 | SW8270CSIM | -- | -- | 0.00048 U | 0.00048 U | 0.00048 U | 0.00048 U | 0.00048 U | 0.00048 U | |
| PCB-114 | SW8270CSIM | -- | -- | 0.00042 U | 0.00042 U | 0.00042 U | 0.00042 U | 0.00042 U | 0.00042 U | |
| PCB-118 | SW8270CSIM | -- | -- | 0.00047 U | 0.00047 U | 0.00047 U | 0.00047 U | 0.00047 U | 0.00047 U | |
| PCB-119 | SW8270CSIM | -- | -- | 0.00041 U | 0.00041 U | 0.00041 U | 0.00041 U | 0.00041 U | 0.00041 U | |
| PCB-123 | SW8270CSIM | -- | -- | 0.00074 U | 0.00074 U | 0.00073 U | 0.00073 U | 0.00074 U | 0.00073 U | |
| PCB-126 | SW8270CSIM | -- | -- | 0.00052 U | 0.00052 U | 0.00052 U | 0.00052 U | 0.00052 U | 0.00052 U | |
| PCB-128 | SW8270CSIM | -- | -- | 0.00068 U | 0.00068 U | 0.00067 U | 0.00067 U | 0.00068 U | 0.00067 U | |
| PCB-132/153 | SW8270CSIM | -- | -- | 0.0011 U | 0.0011 U | 0.0011 U | 0.0011 U | 0.0011 U | 0.0011 U | |
| PCB-138/158 | SW8270CSIM | -- | -- | 0.0011 U | 0.0011 U | 0.0011 U | 0.0011 U | 0.0011 U | 0.0011 U | |
| PCB-149 | SW8270CSIM | -- | -- | 0.00049 U | 0.00049 U | 0.00048 U | 0.00048 U | 0.00049 U | 0.00048 U | |
| PCB-151 | SW8270CSIM | -- | -- | 0.00059 U | 0.00059 U | 0.00058 U | 0.00058 U | 0.00059 U | 0.00058 U | |
| PCB-156 | SW8270CSIM | -- | -- | 0.00049 U | 0.00049 U | 0.00049 U | 0.00049 U | 0.00049 U | 0.00049 U | |
| PCB-157 | SW8270CSIM | -- | -- | 0.00072 U | 0.00072 U | 0.00072 U | 0.00072 U | 0.00072 U | 0.00072 U | |
| PCB-167 | SW8270CSIM | -- | -- | 0.00083 U | 0.00083 U | 0.00083 U | 0.00083 U | 0.00083 U | 0.00083 U | |
| PCB-168 | SW8270CSIM | -- | -- | 0.00032 U | 0.00032 U | 0.00031 U | 0.00031 U | 0.00032 U | 0.00031 U | |
| PCB-169 | SW8270CSIM | -- | -- | 0.00054 U | 0.00054 U | 0.00054 U | 0.00054 U | 0.00054 U | 0.00054 U | |
| PCB-170 | SW8270CSIM | -- | -- | 0.00054 U | 0.00054 U | 0.00054 U | 0.00054 U | 0.00054 U | 0.00054 U | |
| PCB-177 | SW8270CSIM | -- | -- | 0.00055 U | 0.00055 U | 0.00054 U | 0.00054 U | 0.00055 U | 0.00054 U | |
| PCB-180 | SW8270CSIM | -- | -- | 0.00069 U | 0.00069 U | 0.00068 U | 0.00068 U | 0.00069 U | 0.00068 U | |
| PCB-183 | SW8270CSIM | -- | -- | 0.00051 U | 0.00051 U | 0.00051 U | 0.00051 U | 0.00051 U | 0.00051 U | |
| PCB-187 | SW8270CSIM | -- | -- | 0.00054 U | 0.00054 U | 0.00053 U | 0.00053 U | 0.00054 U | 0.00053 U | |
| PCB-189 | SW8270CSIM | -- | -- | 0.00038 U | 0.00038 U | 0.00038 U | 0.00038 U | 0.00038 U | 0.00038 U | |
| PCB-194 | SW8270CSIM | -- | -- | 0.00040 U | 0.00040 U | 0.00040 U | 0.00040 U | 0.00040 U | 0.00040 U | |
| PCB-195 | SW8270CSIM | -- | -- | 0.00034 U | 0.00034 U | 0.00034 U | 0.00034 U | 0.00034 U | 0.00034 U | |
| PCB-201 | SW8270CSIM | -- | -- | 0.00070 U | 0.00070 U | 0.00069 U | 0.00069 U | 0.00070 U | 0.00069 U | |
| PCB-206 | SW8270CSIM | -- | -- | 0.00025 U | 0.00025 U | 0.00024 U | 0.00024 U | 0.00025 U | 0.00024 U | |
| Total PCB congener - low resolution (U = 0) | | | | 0.03 | 0.00017 | 0.00055 U | 0.00055 U | 0.00055 U | 0.00055 U | 0.00055 U |

Table 12
Fall 2014 Water Quality Chemistry Results

| FINAL VALIDATED DATA | | | | Task | GWMA_2014_FallWet | GWMA_2014_FallWet | GWMA_2014_FallWet | GWMA_2014_FallWet | GWMA_2014_FallWet | GWMA_2014_FallWet |
|--|------------|--------|---------|--|-----------------------|-------------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| | | | | Area | Inner Harbor - LB | Inner Harbor - LB | Inner Harbor - LB | Inner Harbor - LB | Inner Harbor - LB | Outer Harbor - LB |
| | | | | Location ID | IB-RW-12_201411 | IB-RW-12_201411 | IB-RW-13_201411 | IB-RW-14_201411 | IB-RW-15_201411 | OB-RW-16_201411 |
| | | | | Sample ID | IB-RW-12-G-S-20141102 | IB-RW-1012-G-M-20141102 | IB-RW-13-G-S-20141102 | IB-RW-14-G-S-20141102 | IB-RW-15-G-S-20141102 | OB-RW-16-G-S-20141102 |
| | | | | Sample Date | 11/02/2014 | 11/02/2014 | 11/02/2014 | 11/02/2014 | 11/02/2014 | 11/02/2014 |
| | | | | Depth | 0.75 m | 8.3 m | 0.75 m | 0.75 m | 0.75 m | 0.75 m |
| | | | | Sample Type | N | FD | N | N | N | N |
| | | | | Matrix | WO | WO | WO | WO | WO | WO |
| | | | | X | -118.22841 | -118.22841 | -118.21624 | -118.23128 | -118.20147 | -118.22414 |
| | | | | Y | 33.76842 | 33.76842 | 33.75354 | 33.74872 | 33.742 | 33.73133 |
| | | | | California Toxics Rule Saltwater Continuous Concentration | | | | | | |
| | | | | Criteria for Protection of Human Health | | | | | | |
| | | | | Method | | | | | | |
| Conventional Parameters (mg/L) | | | | | | | | | | |
| Total suspended solids (surface) | SM2540D | -- | -- | | 0.95 U | -- | 1.0 | 0.95 U | 1.1 | 0.95 U |
| Total suspended solids (middle)* | SM2540D | -- | -- | | 1.1 | 1.1 | 2.3 | 1.0 | 1.1 | 1.1 |
| Total suspended solids (bottom)* | SM2540D | -- | -- | | 1.2 | -- | 3.8 | 1.2 | 1.8 | 0.95 U |
| Metals (µg/L) | | | | | | | | | | |
| Cadmium | E1640 | -- | -- | | 0.0551 | -- | 0.0428 | 0.0462 | 0.0360 | 0.0399 |
| Chromium | E1640 | -- | -- | | 0.171 J | -- | 0.164 U | 0.164 U | 0.164 U | 0.164 U |
| Copper | E1640 | -- | -- | | 2.04 J | -- | 1.06 J | 1.26 J | 1.22 J | 0.767 J |
| Lead | E1640 | -- | -- | | 0.202 | -- | 0.162 | 0.106 | 0.0867 | 0.116 |
| Mercury | E1631E | -- | -- | | 0.00105 | -- | 0.00134 | 0.000963 | 0.000699 | 0.00120 |
| Zinc | E1640 | -- | -- | | 12.1 J | -- | 5.45 J | 2.94 J | 3.92 J | 1.97 J |
| Metals, Dissolved (µg/L) | | | | | | | | | | |
| Cadmium | E1640 | 9.3 | -- | | 0.0549 | -- | 0.0442 | 0.0498 | 0.0380 | 0.0446 |
| Chromium | E1640 | 50 | -- | | 0.164 U | -- | 0.164 U | 0.164 U | 0.164 U | 0.164 U |
| Copper | E1640 | 3.1 | -- | | 1.49 | -- | 0.691 | 0.893 | 0.838 | 0.520 |
| Lead | E1640 | 8.1 | -- | | 0.0417 | -- | 0.0276 J | 0.0278 J | 0.0135 U | 0.0300 |
| Mercury | E1631E | 0.94 | 0.051 | | 0.000862 | -- | 0.000692 | 0.000876 | 0.000113 U | 0.000445 J |
| Zinc | E1640 | 81 | -- | | 13.7 | -- | 4.32 | 2.97 | 3.55 | 1.87 |
| Pesticides (µg/L) | | | | | | | | | | |
| 2,4'-DDD (o,p'-DDD) | SW8081A | -- | -- | | 0.00056 U | -- | 0.00056 U | 0.00056 U | 0.00056 U | 0.00056 U |
| 2,4'-DDE (o,p'-DDE) | SW8081A | -- | -- | | 0.00047 U | -- | 0.00047 U | 0.00047 U | 0.00047 U | 0.00047 U |
| 2,4'-DDT (o,p'-DDT) | SW8081A | -- | -- | | 0.00066 U | -- | 0.00065 U | 0.00065 U | 0.00065 U | 0.00065 U |
| 4,4'-DDD (p,p'-DDD) | SW8081A | -- | -- | | 0.00053 U | -- | 0.00052 U | 0.00052 U | 0.00052 U | 0.00052 U |
| 4,4'-DDE (p,p'-DDE) | SW8081A | -- | -- | | 0.00046 U | -- | 0.00046 U | 0.00046 U | 0.00046 U | 0.00046 U |
| 4,4'-DDT (p,p'-DDT) | SW8081A | 0.001 | 0.00059 | | 0.00053 U | -- | 0.00053 U | 0.00053 U | 0.00053 U | 0.00053 U |
| Chlordane, alpha- (Chlordane, cis-) | SW8081A | -- | -- | | 0.00047 U | -- | 0.00047 U | 0.00047 U | 0.00047 U | 0.00047 U |
| Chlordane, beta- (Chlordane, trans-) | SW8081A | -- | -- | | 0.00047 U | -- | 0.00047 U | 0.00047 U | 0.00047 U | 0.00047 U |
| Dieldrin | SW8081A | 0.0019 | 0.00014 | | 0.00053 U | -- | 0.00052 U | 0.00052 U | 0.00052 U | 0.00052 U |
| Nonachlor, cis- | SW8081A | -- | -- | | 0.00048 U | -- | 0.00048 U | 0.00048 U | 0.00048 U | 0.00048 U |
| Nonachlor, trans- | SW8081A | -- | -- | | 0.00054 U | -- | 0.00053 U | 0.00053 U | 0.00053 U | 0.00053 U |
| Oxychlordane | SW8081A | -- | -- | | 0.00060 U | -- | 0.00060 U | 0.00060 U | 0.00060 U | 0.00060 U |
| Toxaphene | SW8081A | 0.0002 | -- | | 0.0079 U | -- | 0.0079 U | 0.0079 U | 0.0079 U | 0.0079 U |
| Total chlordane (U = 0) | | 0.004 | 0.00059 | | 0.00030 U | -- | 0.00030 U | 0.00030 U | 0.00030 U | 0.00030 U |
| Total DDx (U = 0) | | 0.001 | 0.00059 | | 0.00033 U | -- | 0.00033 U | 0.00033 U | 0.00033 U | 0.00033 U |
| PCB Congeners - Low resolution (µg/L) | | | | | | | | | | |
| PCB-018 | SW8270CSIM | -- | -- | | 0.00041 U | -- | 0.00040 U | 0.00040 U | 0.00040 U | 0.00040 U |
| PCB-028 | SW8270CSIM | -- | -- | | 0.00065 U | -- | 0.00063 U | 0.00063 U | 0.00063 U | 0.00063 U |
| PCB-037 | SW8270CSIM | -- | -- | | 0.00047 U | -- | 0.00046 U | 0.00046 U | 0.00046 U | 0.00046 U |
| PCB-044 | SW8270CSIM | -- | -- | | 0.00076 U | -- | 0.00074 U | 0.00074 U | 0.00074 U | 0.00074 U |

Table 12
Fall 2014 Water Quality Chemistry Results

| FINAL VALIDATED DATA | | | | Task | GWMA_2014_FallWet | GWMA_2014_FallWet | GWMA_2014_FallWet | GWMA_2014_FallWet | GWMA_2014_FallWet | GWMA_2014_FallWet |
|---|------------|------|---------|--|-----------------------|-------------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| | | | | Area | Inner Harbor - LB | Inner Harbor - LB | Inner Harbor - LB | Inner Harbor - LB | Inner Harbor - LB | Outer Harbor - LB |
| | | | | Location ID | IB-RW-12_201411 | IB-RW-12_201411 | IB-RW-13_201411 | IB-RW-14_201411 | IB-RW-15_201411 | OB-RW-16_201411 |
| | | | | Sample ID | IB-RW-12-G-S-20141102 | IB-RW-1012-G-M-20141102 | IB-RW-13-G-S-20141102 | IB-RW-14-G-S-20141102 | IB-RW-15-G-S-20141102 | OB-RW-16-G-S-20141102 |
| | | | | Sample Date | 11/02/2014 | 11/02/2014 | 11/02/2014 | 11/02/2014 | 11/02/2014 | 11/02/2014 |
| | | | | Depth | 0.75 m | 8.3 m | 0.75 m | 0.75 m | 0.75 m | 0.75 m |
| | | | | Sample Type | N | FD | N | N | N | N |
| | | | | Matrix | WO | WO | WO | WO | WO | WO |
| | | | | X | -118.22841 | -118.22841 | -118.21624 | -118.23128 | -118.20147 | -118.22414 |
| | | | | Y | 33.76842 | 33.76842 | 33.75354 | 33.74872 | 33.742 | 33.73133 |
| | | | | California Toxics Rule Saltwater Continuous Concentration | | | | | | |
| | | | | Criteria for Protection of Human Health | | | | | | |
| Method | | | | | | | | | | |
| PCB-049 | SW8270CSIM | -- | -- | 0.00077 U | -- | 0.00074 U | 0.00074 U | 0.00074 U | 0.00074 U | 0.00074 U |
| PCB-052 | SW8270CSIM | -- | -- | 0.00050 U | -- | 0.00049 U | 0.00049 U | 0.00049 U | 0.00049 U | 0.00049 U |
| PCB-066 | SW8270CSIM | -- | -- | 0.00056 U | -- | 0.00055 U | 0.00055 U | 0.00055 U | 0.00055 U | 0.00055 U |
| PCB-070 | SW8270CSIM | -- | -- | 0.00037 U | -- | 0.00036 U | 0.00036 U | 0.00036 U | 0.00036 U | 0.00036 U |
| PCB-074 | SW8270CSIM | -- | -- | 0.00042 U | -- | 0.00041 U | 0.00041 U | 0.00041 U | 0.00041 U | 0.00041 U |
| PCB-077 | SW8270CSIM | -- | -- | 0.00064 U | -- | 0.00062 U | 0.00062 U | 0.00062 U | 0.00062 U | 0.00062 U |
| PCB-081 | SW8270CSIM | -- | -- | 0.00047 U | -- | 0.00046 U | 0.00046 U | 0.00046 U | 0.00046 U | 0.00046 U |
| PCB-087 | SW8270CSIM | -- | -- | 0.00049 U | -- | 0.00048 U | 0.00048 U | 0.00048 U | 0.00048 U | 0.00048 U |
| PCB-099 | SW8270CSIM | -- | -- | 0.00059 U | -- | 0.00058 U | 0.00058 U | 0.00058 U | 0.00058 U | 0.00058 U |
| PCB-101 | SW8270CSIM | -- | -- | 0.00057 U | -- | 0.00055 U | 0.00055 U | 0.00055 U | 0.00055 U | 0.00055 U |
| PCB-105 | SW8270CSIM | -- | -- | 0.00037 U | -- | 0.00036 U | 0.00036 U | 0.00036 U | 0.00036 U | 0.00036 U |
| PCB-110 | SW8270CSIM | -- | -- | 0.00049 U | -- | 0.00048 U | 0.00048 U | 0.00048 U | 0.00048 U | 0.00048 U |
| PCB-114 | SW8270CSIM | -- | -- | 0.00043 U | -- | 0.00042 U | 0.00042 U | 0.00042 U | 0.00042 U | 0.00042 U |
| PCB-118 | SW8270CSIM | -- | -- | 0.00048 U | -- | 0.00047 U | 0.00047 U | 0.00047 U | 0.00047 U | 0.00047 U |
| PCB-119 | SW8270CSIM | -- | -- | 0.00042 U | -- | 0.00041 U | 0.00041 U | 0.00041 U | 0.00041 U | 0.00041 U |
| PCB-123 | SW8270CSIM | -- | -- | 0.00075 U | -- | 0.00073 U | 0.00073 U | 0.00073 U | 0.00073 U | 0.00073 U |
| PCB-126 | SW8270CSIM | -- | -- | 0.00053 U | -- | 0.00052 U | 0.00052 U | 0.00052 U | 0.00052 U | 0.00052 U |
| PCB-128 | SW8270CSIM | -- | -- | 0.00069 U | -- | 0.00067 U | 0.00067 U | 0.00067 U | 0.00067 U | 0.00067 U |
| PCB-132/153 | SW8270CSIM | -- | -- | 0.0012 U | -- | 0.0011 U | 0.0011 U | 0.0011 U | 0.0011 U | 0.0011 U |
| PCB-138/158 | SW8270CSIM | -- | -- | 0.0011 U | -- | 0.0011 U | 0.0011 U | 0.0011 U | 0.0011 U | 0.0011 U |
| PCB-149 | SW8270CSIM | -- | -- | 0.00050 U | -- | 0.00048 U | 0.00048 U | 0.00048 U | 0.00048 U | 0.00048 U |
| PCB-151 | SW8270CSIM | -- | -- | 0.00060 U | -- | 0.00058 U | 0.00058 U | 0.00058 U | 0.00058 U | 0.00058 U |
| PCB-156 | SW8270CSIM | -- | -- | 0.00050 U | -- | 0.00049 U | 0.00049 U | 0.00049 U | 0.00049 U | 0.00049 U |
| PCB-157 | SW8270CSIM | -- | -- | 0.00074 U | -- | 0.00072 U | 0.00072 U | 0.00072 U | 0.00072 U | 0.00072 U |
| PCB-167 | SW8270CSIM | -- | -- | 0.00085 U | -- | 0.00083 U | 0.00083 U | 0.00083 U | 0.00083 U | 0.00083 U |
| PCB-168 | SW8270CSIM | -- | -- | 0.00032 U | -- | 0.00031 U | 0.00031 U | 0.00031 U | 0.00031 U | 0.00031 U |
| PCB-169 | SW8270CSIM | -- | -- | 0.00055 U | -- | 0.00054 U | 0.00054 U | 0.00054 U | 0.00054 U | 0.00054 U |
| PCB-170 | SW8270CSIM | -- | -- | 0.00055 U | -- | 0.00054 U | 0.00054 U | 0.00054 U | 0.00054 U | 0.00054 U |
| PCB-177 | SW8270CSIM | -- | -- | 0.00056 U | -- | 0.00054 U | 0.00054 U | 0.00054 U | 0.00054 U | 0.00054 U |
| PCB-180 | SW8270CSIM | -- | -- | 0.00070 U | -- | 0.00068 U | 0.00068 U | 0.00068 U | 0.00068 U | 0.00068 U |
| PCB-183 | SW8270CSIM | -- | -- | 0.00052 U | -- | 0.00051 U | 0.00051 U | 0.00051 U | 0.00051 U | 0.00051 U |
| PCB-187 | SW8270CSIM | -- | -- | 0.00055 U | -- | 0.00053 U | 0.00053 U | 0.00053 U | 0.00053 U | 0.00053 U |
| PCB-189 | SW8270CSIM | -- | -- | 0.00039 U | -- | 0.00038 U | 0.00038 U | 0.00038 U | 0.00038 U | 0.00038 U |
| PCB-194 | SW8270CSIM | -- | -- | 0.00041 U | -- | 0.00040 U | 0.00040 U | 0.00040 U | 0.00040 U | 0.00040 U |
| PCB-195 | SW8270CSIM | -- | -- | 0.00035 U | -- | 0.00034 U | 0.00034 U | 0.00034 U | 0.00034 U | 0.00034 U |
| PCB-201 | SW8270CSIM | -- | -- | 0.00071 U | -- | 0.00069 U | 0.00069 U | 0.00069 U | 0.00069 U | 0.00069 U |
| PCB-206 | SW8270CSIM | -- | -- | 0.00025 U | -- | 0.00024 U | 0.00024 U | 0.00024 U | 0.00024 U | 0.00024 U |
| Total PCB congener - low resolution (U = 0) | | 0.03 | 0.00017 | 0.00060 U | -- | 0.00055 U | 0.00055 U | 0.00055 U | 0.00055 U | 0.00055 U |

Table 12
Fall 2014 Water Quality Chemistry Results

| FINAL VALIDATED DATA | | | | Task | GWMA_2014_FallWet | GWMA_2014_FallWet | GWMA_2014_FallWet | GWMA_2014_FallWet | GWMA_2014_FallWet | GWMA_2014_FallWet |
|--|------------|--------|---------|--|-----------------------|-----------------------|-----------------------|-----------------------|---------------------------|---------------------------|
| | | | | Area | Outer Harbor - LB | San Pedro Bay | San Pedro Bay | San Pedro Bay | Los Angeles River Estuary | Los Angeles River Estuary |
| | | | | Location ID | OB-RW-17_201411 | SP-RW-18_201411 | SP-RW-19_201411 | SP-RW-20_201411 | LE-RW-21_201411 | LE-RW-21_201411 |
| | | | | Sample ID | OB-RW-17-G-S-20141102 | SP-RW-18-G-S-20141102 | SP-RW-19-G-S-20141102 | SP-RW-20-G-S-20141102 | LE-RW-21-G-S-20141102 | LE-RW-1021-G-S-20141102 |
| | | | | Sample Date | 11/02/2014 | 11/02/2014 | 11/02/2014 | 11/02/2014 | 11/02/2014 | 11/02/2014 |
| | | | | Depth | 0.75 m | 1 m | 1 m | 1 m | 1 m | 1 m |
| | | | | Sample Type | N | N | N | N | N | FD |
| | | | | Matrix | WO | WO | WO | WO | WO | WO |
| | | | | X | -118.19555 | -118.1813321 | -118.13159 | -118.15733 | -118.19339 | -118.19339 |
| | | | | Y | 33.72799 | 33.75383 | 33.73667 | 33.72548 | 33.75644 | 33.75644 |
| | | | | Method | | | | | | |
| | | | | California Toxics Rule Saltwater Continuous Concentration | | | | | | |
| | | | | Criteria for Protection of Human Health | | | | | | |
| Conventional Parameters (mg/L) | | | | | | | | | | |
| Total suspended solids (surface) | SM2540D | -- | -- | | 1.3 | 4.3 J | 1.8 J | 1.3 J | 7.2 J | -- |
| Total suspended solids (middle)* | SM2540D | -- | -- | | 0.95 U | 2.6 J | 1.2 J | 1.0 J | -- | -- |
| Total suspended solids (bottom)* | SM2540D | -- | -- | | 0.95 U | 1.5 J | 1.0 J | 1.5 J | -- | -- |
| Metals (µg/L) | | | | | | | | | | |
| Cadmium | E1640 | -- | -- | | 0.0438 | 0.0770 | 0.0432 | 0.0493 | 0.0913 | 0.0717 |
| Chromium | E1640 | -- | -- | | 0.164 U | 0.439 J | 0.302 J | 0.323 J | 0.626 J | 0.436 J |
| Copper | E1640 | -- | -- | | 0.949 J | 4.45 | 0.886 | 1.03 | 6.76 | 3.18 |
| Lead | E1640 | -- | -- | | 0.200 | 1.29 J | 0.372 J | 0.434 J | 1.99 J | 1.37 J |
| Mercury | E1631E | -- | -- | | 0.000654 | 0.00248 | 0.000994 | 0.0014 | 0.00419 | 0.00267 |
| Zinc | E1640 | -- | -- | | 3.75 J | 18.4 | 6.62 | 5.95 | 28.6 | 14.3 |
| Metals, Dissolved (µg/L) | | | | | | | | | | |
| Cadmium | E1640 | 9.3 | -- | | 0.0474 | 0.0782 | 0.0409 | 0.0458 | 0.0821 | 0.0663 |
| Chromium | E1640 | 50 | -- | | 0.164 U | 0.270 J | 0.255 J | 0.250 J | 0.365 J | 0.208 J |
| Copper | E1640 | 3.1 | -- | | 0.679 | 2.66 | 0.644 | 0.785 | 4.48 | 1.58 |
| Lead | E1640 | 8.1 | -- | | 0.0274 J | 0.182 | 0.0881 | 0.0896 | 0.263 | 0.0993 |
| Mercury | E1631E | 0.94 | 0.051 | | 0.000659 | 0.000875 | 0.000649 U | 0.000688 U | 0.000992 | 0.000752 U |
| Zinc | E1640 | 81 | -- | | 3.35 | 15.3 | 3.24 | 4.15 | 23.2 | 10.2 |
| Pesticides (µg/L) | | | | | | | | | | |
| 2,4'-DDD (o,p'-DDD) | SW8081A | -- | -- | | 0.00056 U | 0.00058 U | 0.00057 U | 0.00058 U | 0.00057 U | 0.00058 U |
| 2,4'-DDE (o,p'-DDE) | SW8081A | -- | -- | | 0.00047 U | 0.00049 U | 0.00048 U | 0.00049 U | 0.00047 U | 0.00049 U |
| 2,4'-DDT (o,p'-DDT) | SW8081A | -- | -- | | 0.00066 U | 0.00069 U | 0.00067 U | 0.00069 U | 0.00067 U | 0.00069 U |
| 4,4'-DDD (p,p'-DDD) | SW8081A | -- | -- | | 0.00053 U | 0.00055 U | 0.00054 U | 0.00055 U | 0.00053 U | 0.00055 U |
| 4,4'-DDE (p,p'-DDE) | SW8081A | -- | -- | | 0.00046 U | 0.00048 U | 0.00047 U | 0.00048 U | 0.00046 U | 0.00048 U |
| 4,4'-DDT (p,p'-DDT) | SW8081A | 0.001 | 0.00059 | | 0.00053 U | 0.00055 U | 0.00054 U | 0.00055 U | 0.00054 U | 0.00055 U |
| Chlordane, alpha- (Chlordane, cis-) | SW8081A | -- | -- | | 0.00047 U | 0.00049 U | 0.00048 U | 0.00049 U | 0.00048 U | 0.00049 U |
| Chlordane, beta- (Chlordane, trans-) | SW8081A | -- | -- | | 0.00047 U | 0.00049 U | 0.00048 U | 0.00049 U | 0.00047 U | 0.00049 U |
| Dieldrin | SW8081A | 0.0019 | 0.00014 | | 0.00053 U | 0.00055 U | 0.00054 U | 0.00055 U | 0.00053 U | 0.00055 U |
| Nonachlor, cis- | SW8081A | -- | -- | | 0.00048 U | 0.0005 U | 0.00049 U | 0.00050 U | 0.00049 U | 0.00050 U |
| Nonachlor, trans- | SW8081A | -- | -- | | 0.00054 U | 0.00056 U | 0.00055 U | 0.00056 U | 0.00054 U | 0.00056 U |
| Oxychlordane | SW8081A | -- | -- | | 0.00060 U | 0.00063 U | 0.00061 U | 0.00063 U | 0.00061 U | 0.00063 U |
| Toxaphene | SW8081A | 0.0002 | -- | | 0.0079 U | 0.0082 U | 0.0081 U | 0.0082 U | 0.0080 U | 0.0082 U |
| Total chlordane (U = 0) | | 0.004 | 0.00059 | | 0.00030 U | 0.00032 U | 0.00031 U | 0.00032 U | 0.00031 U | 0.00032 U |
| Total DDx (U = 0) | | 0.001 | 0.00059 | | 0.00033 U | 0.00035 U | 0.00034 U | 0.00035 U | 0.00034 U | 0.00035 U |
| PCB Congeners - Low resolution (µg/L) | | | | | | | | | | |
| PCB-018 | SW8270CSIM | -- | -- | | 0.00040 U | 0.00042 U | 0.00042 U | 0.00042 U | 0.00042 U | 0.00042 U |
| PCB-028 | SW8270CSIM | -- | -- | | 0.00063 U | 0.00066 U | 0.00066 U | 0.00066 U | 0.00066 U | 0.00066 U |
| PCB-037 | SW8270CSIM | -- | -- | | 0.00046 U | 0.00048 U | 0.00048 U | 0.00048 U | 0.00048 U | 0.00048 U |
| PCB-044 | SW8270CSIM | -- | -- | | 0.00074 U | 0.00078 U | 0.00078 U | 0.00078 U | 0.00078 U | 0.00078 U |

Table 12
Fall 2014 Water Quality Chemistry Results

| FINAL VALIDATED DATA | | | | Task | GWMA_2014_FallWet | GWMA_2014_FallWet | GWMA_2014_FallWet | GWMA_2014_FallWet | GWMA_2014_FallWet | GWMA_2014_FallWet | |
|---|------------|----|----|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|---------------------------|---------------------------|
| | | | | Area | Outer Harbor - LB | San Pedro Bay | San Pedro Bay | San Pedro Bay | San Pedro Bay | Los Angeles River Estuary | Los Angeles River Estuary |
| | | | | Location ID | OB-RW-17_201411 | SP-RW-18_201411 | SP-RW-19_201411 | SP-RW-20_201411 | LE-RW-21_201411 | LE-RW-21_201411 | |
| | | | | Sample ID | OB-RW-17-G-S-20141102 | SP-RW-18-G-S-20141102 | SP-RW-19-G-S-20141102 | SP-RW-20-G-S-20141102 | LE-RW-21-G-S-20141102 | LE-RW-1021-G-S-20141102 | |
| | | | | Sample Date | 11/02/2014 | 11/02/2014 | 11/02/2014 | 11/02/2014 | 11/02/2014 | 11/02/2014 | |
| | | | | Depth | 0.75 m | 1 m | 1 m | 1 m | 1 m | 1 m | |
| | | | | Sample Type | N | N | N | N | N | FD | |
| | | | | Matrix | WO | WO | WO | WO | WO | WO | |
| | | | | X | -118.19555 | -118.1813321 | -118.13159 | -118.15733 | -118.19339 | -118.19339 | |
| | | | | Y | 33.72799 | 33.75383 | 33.73667 | 33.72548 | 33.75644 | 33.75644 | |
| | | | | California Toxics Rule Saltwater Continuous Concentration | | | | | | | |
| | | | | Criteria for Protection of Human Health | | | | | | | |
| | | | | Method | | | | | | | |
| PCB-049 | SW8270CSIM | -- | -- | 0.00074 U | 0.00078 U | 0.00078 U | 0.00078 U | 0.00078 U | 0.00078 U | 0.00078 U | |
| PCB-052 | SW8270CSIM | -- | -- | 0.00049 U | 0.00051 U | 0.00051 U | 0.00051 U | 0.00051 U | 0.00051 U | 0.00051 U | |
| PCB-066 | SW8270CSIM | -- | -- | 0.00055 U | 0.00057 U | 0.00057 U | 0.00057 U | 0.00057 U | 0.00057 U | 0.00057 U | |
| PCB-070 | SW8270CSIM | -- | -- | 0.00036 U | 0.00038 U | 0.00038 U | 0.00038 U | 0.00038 U | 0.00038 U | 0.00038 U | |
| PCB-074 | SW8270CSIM | -- | -- | 0.00041 U | 0.00043 U | 0.00043 U | 0.00043 U | 0.00043 U | 0.00043 U | 0.00043 U | |
| PCB-077 | SW8270CSIM | -- | -- | 0.00062 U | 0.00065 U | 0.00065 U | 0.00065 U | 0.00065 U | 0.00065 U | 0.00065 U | |
| PCB-081 | SW8270CSIM | -- | -- | 0.00046 U | 0.00048 U | 0.00048 U | 0.00048 U | 0.00048 U | 0.00048 U | 0.00048 U | |
| PCB-087 | SW8270CSIM | -- | -- | 0.00048 U | 0.00050 U | 0.00050 U | 0.00050 U | 0.00050 U | 0.00050 U | 0.00050 U | |
| PCB-099 | SW8270CSIM | -- | -- | 0.00058 U | 0.00060 U | 0.00060 U | 0.00060 U | 0.00060 U | 0.00060 U | 0.00060 U | |
| PCB-101 | SW8270CSIM | -- | -- | 0.00055 U | 0.00058 U | 0.00058 U | 0.00058 U | 0.00058 U | 0.00058 U | 0.00058 U | |
| PCB-105 | SW8270CSIM | -- | -- | 0.00036 U | 0.00038 U | 0.00038 U | 0.00038 U | 0.00038 U | 0.00038 U | 0.00038 U | |
| PCB-110 | SW8270CSIM | -- | -- | 0.00048 U | 0.00050 U | 0.00050 U | 0.00050 U | 0.00050 U | 0.00050 U | 0.00050 U | |
| PCB-114 | SW8270CSIM | -- | -- | 0.00042 U | 0.00044 U | 0.00044 U | 0.00044 U | 0.00044 U | 0.00044 U | 0.00044 U | |
| PCB-118 | SW8270CSIM | -- | -- | 0.00047 U | 0.00049 U | 0.00049 U | 0.00049 U | 0.00049 U | 0.00049 U | 0.00049 U | |
| PCB-119 | SW8270CSIM | -- | -- | 0.00041 U | 0.00043 U | 0.00043 U | 0.00043 U | 0.00043 U | 0.00043 U | 0.00043 U | |
| PCB-123 | SW8270CSIM | -- | -- | 0.00073 U | 0.00077 U | 0.00077 U | 0.00077 U | 0.00077 U | 0.00077 U | 0.00077 U | |
| PCB-126 | SW8270CSIM | -- | -- | 0.00052 U | 0.00055 U | 0.00055 U | 0.00055 U | 0.00055 U | 0.00055 U | 0.00055 U | |
| PCB-128 | SW8270CSIM | -- | -- | 0.00067 U | 0.00070 U | 0.00070 U | 0.00070 U | 0.00070 U | 0.00070 U | 0.00070 U | |
| PCB-132/153 | SW8270CSIM | -- | -- | 0.0011 U | 0.0012 U | 0.0012 U | 0.0012 U | 0.0012 U | 0.0012 U | 0.0012 U | |
| PCB-138/158 | SW8270CSIM | -- | -- | 0.0011 U | 0.0011 U | 0.0011 U | 0.0011 U | 0.0011 U | 0.0011 U | 0.0011 U | |
| PCB-149 | SW8270CSIM | -- | -- | 0.00048 U | 0.00050 U | 0.00050 U | 0.00050 U | 0.00050 U | 0.00050 U | 0.00050 U | |
| PCB-151 | SW8270CSIM | -- | -- | 0.00058 U | 0.00061 U | 0.00061 U | 0.00061 U | 0.00061 U | 0.00061 U | 0.00061 U | |
| PCB-156 | SW8270CSIM | -- | -- | 0.00049 U | 0.00051 U | 0.00051 U | 0.00051 U | 0.00051 U | 0.00051 U | 0.00051 U | |
| PCB-157 | SW8270CSIM | -- | -- | 0.00072 U | 0.00075 U | 0.00075 U | 0.00075 U | 0.00075 U | 0.00075 U | 0.00075 U | |
| PCB-167 | SW8270CSIM | -- | -- | 0.00083 U | 0.00087 U | 0.00087 U | 0.00087 U | 0.00087 U | 0.00087 U | 0.00087 U | |
| PCB-168 | SW8270CSIM | -- | -- | 0.00031 U | 0.00033 U | 0.00033 U | 0.00033 U | 0.00033 U | 0.00033 U | 0.00033 U | |
| PCB-169 | SW8270CSIM | -- | -- | 0.00054 U | 0.00056 U | 0.00056 U | 0.00056 U | 0.00056 U | 0.00056 U | 0.00056 U | |
| PCB-170 | SW8270CSIM | -- | -- | 0.00054 U | 0.00056 U | 0.00056 U | 0.00056 U | 0.00056 U | 0.00056 U | 0.00056 U | |
| PCB-177 | SW8270CSIM | -- | -- | 0.00054 U | 0.00057 U | 0.00057 U | 0.00057 U | 0.00057 U | 0.00057 U | 0.00057 U | |
| PCB-180 | SW8270CSIM | -- | -- | 0.00068 U | 0.00072 U | 0.00072 U | 0.00072 U | 0.00072 U | 0.00072 U | 0.00072 U | |
| PCB-183 | SW8270CSIM | -- | -- | 0.00051 U | 0.00053 U | 0.00053 U | 0.00053 U | 0.00053 U | 0.00053 U | 0.00053 U | |
| PCB-187 | SW8270CSIM | -- | -- | 0.00053 U | 0.00056 U | 0.00056 U | 0.00056 U | 0.00056 U | 0.00056 U | 0.00056 U | |
| PCB-189 | SW8270CSIM | -- | -- | 0.00038 U | 0.00040 U | 0.00040 U | 0.00040 U | 0.00040 U | 0.00040 U | 0.00040 U | |
| PCB-194 | SW8270CSIM | -- | -- | 0.00040 U | 0.00042 U | 0.00042 U | 0.00042 U | 0.00042 U | 0.00042 U | 0.00042 U | |
| PCB-195 | SW8270CSIM | -- | -- | 0.00034 U | 0.00035 U | 0.00035 U | 0.00035 U | 0.00035 U | 0.00035 U | 0.00035 U | |
| PCB-201 | SW8270CSIM | -- | -- | 0.00069 U | 0.00072 U | 0.00072 U | 0.00072 U | 0.00072 U | 0.00072 U | 0.00072 U | |
| PCB-206 | SW8270CSIM | -- | -- | 0.00024 U | 0.00026 U | 0.00026 U | 0.00026 U | 0.00026 U | 0.00026 U | 0.00026 U | |
| Total PCB congener - low resolution (U = 0) | | | | 0.03 | 0.00017 | 0.00055 U | 0.00060 U | 0.00060 U | 0.00060 U | 0.00060 U | 0.00060 U |

Table 12
Fall 2014 Water Quality Chemistry Results

| FINAL VALIDATED DATA | | | | Task | GWMA_2014_FallWet | Number analyzed | WQ Exceedances | Percentage of Exceedance |
|--|---|---|---------|-------------|---------------------------|-----------------|----------------|--------------------------|
| | | | | Area | Los Angeles River Estuary | | | |
| | | | | Location ID | LE-RW-22_201411 | | | |
| | | | | Sample ID | LE-RW-22-G-S-20141102 | | | |
| | | | | Sample Date | 11/02/2014 | | | |
| | | | | Depth | 1 m | | | |
| | | | | Sample Type | N | | | |
| | | | | Matrix | WO | | | |
| | | | | X | -118.20211 | | | |
| | | | | Y | 33.76101 | | | |
| Method | California Toxics Rule Saltwater Continuous Concentration | Criteria for Protection of Human Health | | | | | | |
| Conventional Parameters (mg/L) | | | | | | | | |
| Total suspended solids (surface) | SM2540D | -- | -- | 6.9 J | 23 | 0 | 0% | |
| Total suspended solids (middle)* | SM2540D | -- | -- | 8.4 J | 22 | 0 | 0% | |
| Total suspended solids (bottom)* | SM2540D | -- | -- | 5.4 J | 21 | 0 | 0% | |
| Metals (µg/L) | | | | | | | | |
| Cadmium | E1640 | -- | -- | 0.0688 | 23 | -- | -- | |
| Chromium | E1640 | -- | -- | 0.430 J | 23 | -- | -- | |
| Copper | E1640 | -- | -- | 3.44 | 23 | -- | -- | |
| Lead | E1640 | -- | -- | 1.91 J | 23 | -- | -- | |
| Mercury | E1631E | -- | -- | 0.00311 | 23 | -- | -- | |
| Zinc | E1640 | -- | -- | 17.5 | 23 | -- | -- | |
| Metals, Dissolved (µg/L) | | | | | | | | |
| Cadmium | E1640 | 9.3 | -- | 0.0633 | 23 | 0 | 0% | |
| Chromium | E1640 | 50 | -- | 0.315 J | 23 | 0 | 0% | |
| Copper | E1640 | 3.1 | -- | 2.70 | 23 | 1 | 4% | |
| Lead | E1640 | 8.1 | -- | 0.336 | 23 | 0 | 0% | |
| Mercury | E1631E | 0.94 | 0.051 | 0.000877 | 23 | 0 | 0% | |
| Zinc | E1640 | 81 | -- | 16.7 | 23 | 0 | 0% | |
| Pesticides (µg/L) | | | | | | | | |
| 2,4'-DDD (o,p'-DDD) | SW8081A | -- | -- | 0.00058 U | 23 | -- | -- | |
| 2,4'-DDE (o,p'-DDE) | SW8081A | -- | -- | 0.00049 U | 23 | -- | -- | |
| 2,4'-DDT (o,p'-DDT) | SW8081A | -- | -- | 0.00069 U | 23 | -- | -- | |
| 4,4'-DDD (p,p'-DDD) | SW8081A | -- | -- | 0.00055 U | 23 | -- | -- | |
| 4,4'-DDE (p,p'-DDE) | SW8081A | -- | -- | 0.00048 U | 23 | -- | -- | |
| 4,4'-DDT (p,p'-DDT) | SW8081A | 0.001 | 0.00059 | 0.00055 U | 23 | 0 | 0% | |
| Chlordane, alpha- (Chlordane, cis-) | SW8081A | -- | -- | 0.00049 U | 23 | -- | -- | |
| Chlordane, beta- (Chlordane, trans-) | SW8081A | -- | -- | 0.00049 U | 23 | -- | -- | |
| Dieldrin | SW8081A | 0.0019 | 0.00014 | 0.00055 U | 23 | 23 | 100% | |
| Nonachlor, cis- | SW8081A | -- | -- | 0.00050 U | 23 | -- | -- | |
| Nonachlor, trans- | SW8081A | -- | -- | 0.00056 U | 23 | -- | -- | |
| Oxychlordane | SW8081A | -- | -- | 0.00063 U | 23 | -- | -- | |
| Toxaphene | SW8081A | 0.0002 | -- | 0.0082 U | 23 | 23 | 100% | |
| Total chlordane (U = 0) | | 0.004 | 0.00059 | 0.00032 U | 23 | 0 | 0% | |
| Total DDx (U = 0) | | 0.001 | 0.00059 | 0.00035 U | 23 | 0 | 0% | |
| PCB Congeners - Low resolution (µg/L) | | | | | | | | |
| PCB-018 | SW8270CSIM | -- | -- | 0.00042 U | 23 | -- | -- | |
| PCB-028 | SW8270CSIM | -- | -- | 0.00066 U | 23 | -- | -- | |
| PCB-037 | SW8270CSIM | -- | -- | 0.00048 U | 23 | -- | -- | |
| PCB-044 | SW8270CSIM | -- | -- | 0.00078 U | 23 | -- | -- | |

Table 12
Fall 2014 Water Quality Chemistry Results

| FINAL VALIDATED DATA | | | | | Task | GWMA_2014_FallWet | | | |
|---|------------|------|---------|--|--|---------------------------|--------------------|-------------------|-----------------------------|
| | | | | | Area | Los Angeles River Estuary | | | |
| | | | | | Location ID | LE-RW-22_201411 | | | |
| | | | | | Sample ID | LE-RW-22-G-S-20141102 | | | |
| | | | | | Sample Date | 11/02/2014 | | | |
| | | | | | Depth | 1 m | | | |
| | | | | | Sample Type | N | | | |
| | | | | | Matrix | WO | | | |
| | | | | | X | -118.20211 | | | |
| | | | | | Y | 33.76101 | | | |
| | | | | | California Toxics Rule Saltwater Continuous Concentration | | | | |
| | | | | | Criteria for Protection of Human Health | | | | |
| Method | | | | | | | Number analyzed | WQ Exceedances | Percentage of Exceedance |
| PCB-049 | SW8270CSIM | -- | -- | | 0.00078 U | | 23 | -- | -- |
| PCB-052 | SW8270CSIM | -- | -- | | 0.00051 U | | 23 | -- | -- |
| PCB-066 | SW8270CSIM | -- | -- | | 0.00057 U | | 23 | -- | -- |
| PCB-070 | SW8270CSIM | -- | -- | | 0.00038 U | | 23 | -- | -- |
| PCB-074 | SW8270CSIM | -- | -- | | 0.00043 U | | 23 | -- | -- |
| PCB-077 | SW8270CSIM | -- | -- | | 0.00065 U | | 23 | -- | -- |
| PCB-081 | SW8270CSIM | -- | -- | | 0.00048 U | | 23 | -- | -- |
| PCB-087 | SW8270CSIM | -- | -- | | 0.00050 U | | 23 | -- | -- |
| PCB-099 | SW8270CSIM | -- | -- | | 0.00060 U | | 23 | -- | -- |
| PCB-101 | SW8270CSIM | -- | -- | | 0.00058 U | | 23 | -- | -- |
| PCB-105 | SW8270CSIM | -- | -- | | 0.00038 U | | 23 | -- | -- |
| PCB-110 | SW8270CSIM | -- | -- | | 0.00050 U | | 23 | -- | -- |
| PCB-114 | SW8270CSIM | -- | -- | | 0.00044 U | | 23 | -- | -- |
| PCB-118 | SW8270CSIM | -- | -- | | 0.00049 U | | 23 | -- | -- |
| PCB-119 | SW8270CSIM | -- | -- | | 0.00043 U | | 23 | -- | -- |
| PCB-123 | SW8270CSIM | -- | -- | | 0.00077 U | | 23 | -- | -- |
| PCB-126 | SW8270CSIM | -- | -- | | 0.00055 U | | 23 | -- | -- |
| PCB-128 | SW8270CSIM | -- | -- | | 0.00070 U | | 23 | -- | -- |
| PCB-132/153 | SW8270CSIM | -- | -- | | 0.0012 U | | 23 | -- | -- |
| PCB-138/158 | SW8270CSIM | -- | -- | | 0.0011 U | | 23 | -- | -- |
| PCB-149 | SW8270CSIM | -- | -- | | 0.00050 U | | 23 | -- | -- |
| PCB-151 | SW8270CSIM | -- | -- | | 0.00061 U | | 23 | -- | -- |
| PCB-156 | SW8270CSIM | -- | -- | | 0.00051 U | | 23 | -- | -- |
| PCB-157 | SW8270CSIM | -- | -- | | 0.00075 U | | 23 | -- | -- |
| PCB-167 | SW8270CSIM | -- | -- | | 0.00087 U | | 23 | -- | -- |
| PCB-168 | SW8270CSIM | -- | -- | | 0.00033 U | | 23 | -- | -- |
| PCB-169 | SW8270CSIM | -- | -- | | 0.00056 U | | 23 | -- | -- |
| PCB-170 | SW8270CSIM | -- | -- | | 0.00056 U | | 23 | -- | -- |
| PCB-177 | SW8270CSIM | -- | -- | | 0.00057 U | | 23 | -- | -- |
| PCB-180 | SW8270CSIM | -- | -- | | 0.00072 U | | 23 | -- | -- |
| PCB-183 | SW8270CSIM | -- | -- | | 0.00053 U | | 23 | -- | -- |
| PCB-187 | SW8270CSIM | -- | -- | | 0.00056 U | | 23 | -- | -- |
| PCB-189 | SW8270CSIM | -- | -- | | 0.00040 U | | 23 | -- | -- |
| PCB-194 | SW8270CSIM | -- | -- | | 0.00042 U | | 23 | -- | -- |
| PCB-195 | SW8270CSIM | -- | -- | | 0.00035 U | | 23 | -- | -- |
| PCB-201 | SW8270CSIM | -- | -- | | 0.00072 U | | 23 | -- | -- |
| PCB-206 | SW8270CSIM | -- | -- | | 0.00026 U | | 23 | -- | -- |
| Total PCB congener - low resolution (U = 0) | | 0.03 | 0.00017 | | 0.00060 U | | 23 | 23 | 100% |

Table 12
Fall 2014 Water Quality Chemistry Results

Notes:

*The total suspended solid results for samples collected from mid-depth and bottom depth are respectively labeled as "-M-" and "-B-" preceding the sample ID date. They are not direct results of the surface sample IDs indicated in the column headers in this spreadsheet.

Horizontal coordinate datum is NAD 1983 State Plane California V FIPS 0405 (US Survey Feet).

All undetect results are reported at the method detection limit.


Totals (U=0) are calculated as the sum of all detected results. If all results are not detected, half of the highest reporting limit value is reported as the sum.


Total chlordane is the sum of alpha-chlordane, beta-chlordane, gamma-chlordane, cis-nonachlor, trans-nonachlor, and oxychlordane.

Total DDX is the sum of 4,4'-DDD, 4,4'-DDE, 4,4'-DDT, 2,4'-DDD, 2,4'-DDE, and 2,4'-DDT, if measured.

Total PCB congeners is the sum of all PCB congeners listed in this table.

USEPA Stage 2A data validation was completed by Anchor QEA.

 Detected concentration is greater than California Toxics Rule Saltwater Continuous Concentration screening level

 Detected concentration is greater than the Criteria for Protection of Human Health

Italics = Non-detected concentration is above one or more identified screening levels

Bold = detected result

-- = results not reported or not applicable

µg/L = micrograms per liter

FD = field duplicate

J = estimated value

m = meters

mg/L = milligrams per liter

N = normal environmental sample

NAD = North American Datum

PCB = polychlorinated biphenyls

U = compound analyzed but not detected above detection limit

USEPA = U.S. Environmental Protection Agency

WO = ocean water matrix

WQ = water quality

Table 13
Winter 2015 Water Quality Field Data

| Station ID | Sample ID | Latitude | Longitude | Date | Time | Depth (m) | DO | pH | Salinity (ppt) | Temperature (°C) | Sample Collected (Y/N) | Description of Sample | | | |
|------------|-----------------------|----------|------------|-----------|-------|-----------|-----|-----|----------------|------------------|------------------------|-----------------------|------|-------|-------|
| | | | | | | | | | | | | Floating Material | Odor | Sheen | Color |
| CS-RW-01 | CS-RW-01-G-S-20150224 | 33.77486 | -118.24521 | 2/24/2015 | 8:57 | 7.0 | 5.1 | 7.9 | 28.9 | 17.3 | Y | None | None | None | None |
| CS-RW-01 | CS-RW-01-G-M-20150224 | 33.77486 | -118.24521 | 2/24/2015 | 8:57 | 2.8 | 6.3 | 8.1 | 32.9 | 17.2 | Y | None | None | None | None |
| CS-RW-01 | CS-RW-01-G-B-20150224 | 33.77486 | -118.24521 | 2/24/2015 | 8:58 | 5.0 | 6.7 | 8.1 | 33.2 | 17.2 | Y | None | None | None | None |
| IA-RW-02 | IA-RW-02-G-S-20150224 | 33.76290 | -118.25490 | 2/24/2015 | 9:28 | 1.0 | 7.1 | 8.0 | 32.5 | 17.4 | Y | None | None | None | None |
| IA-RW-02 | IA-RW-02-G-M-20150224 | 33.76290 | -118.25490 | 2/24/2015 | 9:32 | 5.8 | 7.3 | 8.1 | 33.1 | 17.2 | Y | None | None | None | None |
| IA-RW-02 | IA-RW-02-G-B-20150224 | 33.76290 | -118.25490 | 2/24/2015 | 9:34 | 11.0 | 7.2 | 8.1 | 33.2 | 17.1 | Y | None | None | None | None |
| IA-RW-03 | IA-RW-03-G-S-20150224 | 33.76229 | -118.27405 | 2/24/2015 | 10:12 | 1.0 | 7.8 | 8.1 | 32.9 | 17.4 | Y | None | None | None | None |
| IA-RW-03 | IA-RW-03-G-M-20150224 | 33.76229 | -118.27405 | 2/24/2015 | 10:13 | 8.8 | 7.0 | 8.1 | 33.2 | 17.0 | Y | None | None | None | None |
| IA-RW-03 | IA-RW-03-G-B-20150224 | 33.76229 | -118.27405 | 2/24/2015 | 10:16 | 17.0 | 6.7 | 8.1 | 33.3 | 17.1 | Y | None | None | None | None |
| IA-RW-04 | IA-RW-04-G-S-20150224 | 33.75188 | -118.27103 | 2/24/2015 | 10:45 | 1.0 | 7.5 | 8.1 | 32.8 | 17.1 | Y | None | None | None | None |
| IA-RW-04 | IA-RW-04-G-M-20150224 | 33.75188 | -118.27103 | 2/24/2015 | 10:47 | 10.5 | 7.2 | 8.2 | 33.2 | 16.9 | Y | None | None | None | None |
| IA-RW-04 | IA-RW-04-G-B-20150224 | 33.75188 | -118.27103 | 2/24/2015 | 10:49 | 20.0 | 7.3 | 8.2 | 33.3 | 16.8 | Y | None | None | None | None |
| IA-RW-05 | IA-RW-05-G-S-20150224 | 33.73253 | -118.25132 | 2/24/2015 | 12:39 | 1.0 | 7.7 | 8.2 | 33.3 | 17.3 | Y | None | None | None | None |
| IA-RW-05 | IA-RW-05-G-M-20150224 | 33.73253 | -118.25132 | 2/24/2015 | 12:40 | 8.6 | 7.7 | 8.2 | 33.4 | 16.7 | Y | None | None | None | None |
| IA-RW-05 | IA-RW-05-G-B-20150224 | 33.73253 | -118.25132 | 2/24/2015 | 12:42 | 17.0 | 7.6 | 8.2 | 33.4 | 16.6 | Y | None | None | None | None |
| IA-RW-06 | IA-RW-06-G-S-20150224 | 33.72563 | -118.27142 | 2/24/2015 | 11:25 | 1.0 | 7.6 | 8.2 | 33.2 | 16.8 | Y | None | None | None | None |
| IA-RW-06 | IA-RW-06-G-M-20150224 | 33.72563 | -118.27142 | 2/24/2015 | 11:26 | 9.2 | 7.7 | 8.2 | 33.2 | 16.7 | Y | None | None | None | None |
| IA-RW-06 | IA-RW-06-G-B-20150224 | 33.72563 | -118.27142 | 2/24/2015 | 11:28 | 17.8 | 7.7 | 8.2 | 33.4 | 16.5 | Y | None | None | None | None |
| FH-RW-07 | FH-RW-07-G-S-20150224 | 33.73574 | -118.26717 | 2/24/2015 | 13:11 | 1.0 | 7.5 | 8.2 | 33.3 | 17.3 | Y | None | None | None | None |
| FH-RW-07 | FH-RW-07-G-M-20150224 | 33.73574 | -118.26717 | 2/24/2015 | 13:12 | 3.6 | 7.4 | 8.2 | 33.3 | 17.1 | Y | None | None | None | None |
| FH-RW-07 | FH-RW-07-G-B-20150224 | 33.73574 | -118.26717 | 2/24/2015 | 13:14 | 6.6 | 7.3 | 8.2 | 33.4 | 17.1 | Y | None | None | None | None |
| OB-RW-08 | OB-RW-08-G-S-20150224 | 33.95222 | -118.38556 | 2/24/2015 | 13:05 | 1.0 | 8.8 | 8.2 | 35.1 | 16.8 | Y | None | None | None | None |
| OB-RW-08 | OB-RW-08-G-M-20150224 | 33.95222 | -118.38556 | 2/24/2015 | 13:10 | 11.0 | 8.7 | 8.2 | 35.5 | 16.5 | Y | None | None | None | None |
| OB-RW-08 | OB-RW-08-G-B-20150224 | 33.95222 | -118.38556 | 2/24/2015 | 13:15 | 21.0 | 8.4 | 8.2 | 35.9 | 16.1 | Y | None | None | None | None |
| OB-RW-09 | OB-RW-09-G-S-20150224 | 33.92361 | -118.52194 | 2/24/2015 | 13:45 | 1.0 | 8.5 | 8.2 | 35.3 | 16.7 | Y | None | None | None | None |
| OB-RW-09 | OB-RW-09-G-M-20150224 | 33.92361 | -118.52194 | 2/24/2015 | 14:05 | 7.5 | 8.5 | 8.2 | 35.3 | 16.7 | Y | None | None | None | None |
| OB-RW-09 | OB-RW-09-G-B-20150224 | 33.92361 | -118.52194 | 2/24/2015 | 14:10 | 14.0 | 8.5 | 8.2 | 35.4 | 16.7 | Y | None | None | None | None |
| CM-RW-10 | CM-RW-10-G-S-20150224 | 33.71946 | -118.27901 | 2/24/2015 | 13:48 | 1.0 | 7.6 | 8.2 | 33.1 | 17.1 | Y | None | None | None | None |
| CM-RW-10 | CM-RW-10-G-M-20150225 | 33.71946 | -118.27901 | 2/24/2015 | 13:49 | 6.1 | 7.6 | 8.2 | 33.4 | 16.6 | Y | None | None | None | None |
| CM-RW-10 | CM-RW-10-G-B-20150224 | 33.71946 | -118.27901 | 2/24/2015 | 13:51 | 11.5 | 6.8 | 8.2 | 33.4 | 16.5 | Y | None | None | None | None |
| CB-RW-11 | CB-RW-11-G-S-20150224 | 33.90806 | -118.46222 | 2/24/2015 | 14:23 | 1.0 | 8.2 | 8.2 | 35.3 | 16.7 | Y | None | None | None | None |
| CB-RW-11 | CB-RW-11-G-M-20150224 | 33.90806 | -118.46222 | 2/24/2015 | 14:30 | 3.0 | 8.1 | 8.2 | 35.3 | 16.7 | Y | None | None | None | None |
| CB-RW-11 | CB-RW-11-G-B-20150224 | 33.90806 | -118.46222 | 2/24/2015 | 14:33 | 4.5 | 8.0 | 8.2 | 35.5 | 16.5 | Y | None | None | None | None |
| IB-RW-12 | IB-RW-12-G-S-20150224 | 33.80583 | -118.38833 | 2/24/2015 | 8:46 | 1.0 | 7.8 | 7.7 | 33.5 | 17.0 | Y | None | None | None | None |
| IB-RW-12 | IB-RW-12-G-M-20150224 | 33.80583 | -118.38833 | 2/24/2015 | 9:05 | 9.0 | 8.0 | 8.0 | 34.7 | 17.0 | Y | None | None | None | None |
| IB-RW-12 | IB-RW-12-G-B-20150224 | 33.80583 | -118.38833 | 2/24/2015 | 9:09 | 17.0 | 8.0 | 8.1 | 34.8 | 16.9 | Y | None | None | None | None |
| IB-RW-13 | IB-RW-13-G-S-20150224 | 33.81056 | -118.47361 | 2/24/2015 | 9:35 | 1.0 | 8.9 | 8.1 | 35.1 | 16.8 | Y | None | None | None | None |
| IB-RW-13 | IB-RW-13-G-M-20150224 | 33.81056 | -118.47361 | 2/24/2015 | 9:52 | 11.0 | 8.4 | 8.2 | 35.2 | 16.8 | Y | None | None | None | None |
| IB-RW-13 | IB-RW-13-G-B-20150224 | 33.81056 | -118.47361 | 2/24/2015 | 9:57 | 21.0 | 8.3 | 8.2 | 35.3 | 16.7 | Y | None | None | None | None |
| IB-RW-14 | IB-RW-14-G-S-20150224 | 33.75722 | -118.48083 | 2/24/2015 | 10:24 | 1.0 | 9.2 | 8.2 | 35.1 | 16.9 | Y | None | None | None | None |
| IB-RW-14 | IB-RW-14-G-M-20150224 | 33.75722 | -118.48083 | 2/24/2015 | 10:33 | 7.5 | 9 | 8.2 | 35.3 | 16.8 | Y | None | None | None | None |

Table 13
Winter 2015 Water Quality Field Data

| Station ID | Sample ID | Latitude | Longitude | Date | Time | Depth (m) | DO | pH | Salinity (ppt) | Temperature (°C) | Sample Collected (Y/N) | Description of Sample | | | |
|------------|------------------------|----------|------------|-----------|-------|-----------|-----|-----|----------------|------------------|------------------------|-----------------------|------|-------|-------|
| | | | | | | | | | | | | Floating Material | Odor | Sheen | Color |
| IB-RW-14 | IB-RW-14-G-B-20150224 | 33.75722 | -118.48083 | 2/24/2015 | 10:42 | 14.0 | 8.6 | 8.2 | 35.3 | 16.7 | Y | None | None | None | None |
| IB-RW-15 | IB-RW-15-G-S-20150224 | 33.87306 | -118.25167 | 2/24/2015 | 12:05 | 1.0 | 9.0 | 8.2 | 35.0 | 16.9 | Y | None | None | None | None |
| IB-RW-15 | IB-RW-15-G-M-20150224 | 33.87306 | -118.25167 | 2/24/2015 | 12:15 | 10.0 | 8.3 | 8.2 | 35.3 | 16.7 | Y | None | None | None | None |
| IB-RW-15 | IB-RW-15-G-B-20150224 | 33.87306 | -118.25167 | 2/24/2015 | 12:19 | 19.0 | 8.4 | 8.2 | 35.4 | 16.6 | Y | None | None | None | None |
| IB-RW-16 | IB-RW-16-G-S-20150224 | 33.93611 | -118.41139 | 2/24/2015 | 12:45 | 1.0 | 9.2 | 8.2 | 35.1 | 16.8 | Y | None | None | None | None |
| IB-RW-16 | IB-RW-16-G-M-20150224 | 33.93611 | -118.41139 | 2/24/2015 | 12:51 | 5.5 | 9.4 | 8.2 | 35.3 | 16.6 | Y | None | None | None | None |
| IB-RW-16 | IB-RW-16-BG-B-20150224 | 33.93611 | -118.41139 | 2/24/2015 | 12:54 | 10.0 | 8.7 | 8.2 | 35.4 | 16.6 | Y | None | None | None | None |
| OB-RW-17 | OB-RW-17-G-S-20150224 | 33.72754 | -118.18606 | 2/24/2015 | 10:45 | 0.5 | 8.4 | 7.8 | 30.3 | 16.4 | Y | None | None | None | None |
| OB-RW-17 | OB-RW-17-G-M-20150224 | 33.72754 | -118.18606 | 2/24/2015 | 10:44 | 11.0 | 8.9 | 7.8 | 33.0 | 16.6 | Y | None | None | None | None |
| OB-RW-17 | OB-RW-17-G-B-20150224 | 33.72754 | -118.18606 | 2/24/2015 | 10:42 | 20.0 | 8.8 | 7.9 | 33.0 | 16.3 | Y | None | None | None | None |
| SP-RW-18 | SP-RW-18-G-S-20150224 | 33.75383 | -118.18133 | 2/24/2015 | 10:09 | 0.5 | 7.2 | 7.8 | 31.0 | 17.0 | Y | None | None | None | None |
| SP-RW-18 | SP-RW-18-G-M-20150224 | 33.75383 | -118.18133 | 2/24/2015 | 10:08 | 6.7 | 6.6 | 7.7 | 32.9 | 16.6 | Y | None | None | None | None |
| SP-RW-18 | SP-RW-18-G-B-20150224 | 33.75383 | -118.18133 | 2/24/2015 | 10:07 | 10.0 | 6.0 | 7.7 | 32.9 | 16.6 | Y | None | None | None | None |
| SP-RW-19 | SP-RW-19-G-S-20150224 | 33.73667 | -118.13159 | 2/24/2015 | 12:17 | 0.0 | 7.9 | 7.9 | 32.6 | 17.3 | Y | None | None | None | None |
| SP-RW-19 | SP-RW-19-G-M-20150224 | 33.73667 | -118.13159 | 2/24/2015 | 12:16 | 4.2 | 8.8 | 7.8 | 32.9 | 16.8 | Y | None | None | None | None |
| SP-RW-19 | SP-RW-19-G-B-20150224 | 33.73667 | -118.13159 | 2/24/2015 | 12:14 | 8.5 | 8.5 | 7.8 | 33.0 | 16.6 | Y | None | None | None | None |
| SP-RW-20 | SP-RW-20-G-S-20150224 | 33.72548 | -118.15733 | 2/24/2015 | 10:35 | 0.5 | 9.4 | 7.8 | 31.7 | 16.4 | Y | None | None | None | None |
| SP-RW-20 | SP-RW-20-G-M-20150224 | 33.72548 | -118.15733 | 2/24/2015 | 10:34 | 7.5 | 8.8 | 7.9 | 32.9 | 16.6 | Y | None | None | None | None |
| SP-RW-20 | SP-RW-20-G-B-20150224 | 33.72548 | -118.15733 | 2/24/2015 | 10:33 | 15.0 | 8.6 | 7.9 | 33.0 | 16.5 | Y | None | None | None | None |
| LE-RW-21 | LE-RW-21-G-S-20150224 | 33.75644 | -118.10739 | 2/24/2015 | 9:13 | 0.0 | 4.2 | 7.6 | 26.4 | 17.0 | Y | None | None | None | None |
| LE-RW-21 | LE-RW-21-G-M-20150224 | 33.75644 | -118.10739 | 2/24/2015 | 9:12 | 0.5 | 4.3 | 7.6 | 27.8 | 17.0 | Y | None | None | None | None |
| LE-RW-21 | LE-RW-21-G-B-20150224 | 33.75644 | -118.10739 | 2/24/2015 | 9:10 | 1.0 | 4.5 | 7.6 | 28.7 | 17.0 | Y | None | None | None | None |
| LE-RW-22 | LE-RW-22-G-S-20150224 | 33.76101 | -118.20211 | 2/24/2015 | 8:31 | 0.0 | 4.0 | 7.6 | 20.2 | 16.6 | Y | None | None | None | None |
| LE-RW-22 | LE-RW-22-G-M-20150224 | 33.76101 | -118.20211 | 2/24/2015 | 8:27 | 0.5 | 3.4 | 7.5 | 25.0 | 16.9 | Y | None | None | None | None |
| LE-RW-22 | LE-RW-22-G-B-20150224 | 33.76101 | -118.20211 | 2/24/2015 | 8:26 | 1.0 | 3.0 | 7.5 | 30.9 | 16.9 | Y | None | None | None | None |

Notes:

DO = dissolved oxygen

m = meter

ppt = parts per thousand

Table 14
Winter 2015 Water Quality Chemistry Results

| FINAL VALIDATED DATA | | | | Task | GWMA_2015_WntrWet | GWMA_2015_WntrWet | GWMA_2015_WntrWet | GWMA_2015_WntrWet | GWMA_2015_WntrWet | GWMA_2015_WntrWet |
|---------------------------------------|---------|--------|---------|---|-----------------------|-------------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| | | | | Area | Consolidated Slip | Consolidated Slip | Inner Harbor - LA | Inner Harbor - LA | Inner Harbor - LA | Inner Harbor - LA |
| | | | | Location ID | CS-RW-01_201502 | CS-RW-01_201502 | IA-RW-02_201502 | IA-RW-03_201502 | IA-RW-04_201502 | IA-RW-05_201502 |
| | | | | Sample ID | CS-RW-01-G-S-20150224 | CS-RW-1001-G-S-20150224 | IA-RW-02-G-S-20150224 | IA-RW-03-G-S-20150224 | IA-RW-04-G-S-20150224 | IA-RW-05-G-S-20150224 |
| | | | | Sample Date | 02/24/2015 | 02/24/2015 | 02/24/2015 | 02/24/2015 | 02/24/2015 | 02/24/2015 |
| | | | | Depth | 1 m | 1 m | 1 m | 1 m | 1 m | 1 m |
| | | | | Sample Type | N | FD | N | N | N | N |
| | | | | Matrix | WO | WO | WO | WO | WO | WO |
| | | | | X | -118.24521 | -118.24521 | -118.2549 | -118.27405 | -118.27103 | -118.25132 |
| | | | | Y | 33.77486 | 33.77486 | 33.7629 | 33.76229 | 33.75188 | 33.73253 |
| | | | | Method | | | | | | |
| | | | | California Toxics Rule Saltwater Continuous Concentration | | | | | | |
| | | | | Criteria for Protection of Human Health | | | | | | |
| Conventional Parameters (mg/L) | | | | | | | | | | |
| Total suspended solids (surface) | SM2540D | -- | -- | | 0.95 U | 3.0 | 1.9 | 1.7 | 1.4 | 2.0 |
| Total suspended solids (middle)* | SM2540D | -- | -- | | 1.9 | -- | 1.8 | 5.2 | 2.9 | 2.9 |
| Total suspended solids (bottom)* | SM2540D | -- | -- | | 2.8 | -- | 1.7 | 2.7 | 2.1 | 3.2 |
| Metals (µg/L) | | | | | | | | | | |
| Cadmium | E1640 | -- | -- | | 0.0978 | -- | 0.0702 U | 0.0609 U | 0.0599 U | 0.0469 U |
| Chromium | E1640 | -- | -- | | 0.678 | -- | 0.262 J | 0.164 U | 0.164 U | 0.201 J |
| Copper | E1640 | -- | -- | | 6.41 | -- | 3.78 | 3.28 | 2.79 | 2.11 |
| Lead | E1640 | -- | -- | | 1.23 | -- | 0.598 | 0.236 | 0.278 | 0.186 |
| Mercury | E1631E | -- | -- | | 0.00739 | -- | 0.00273 | 0.00144 | 0.00374 | 0.00360 |
| Zinc | E1640 | -- | -- | | 42.8 | -- | 18.6 | 9.57 | 9.69 | 4.94 |
| Metals, Dissolved (µg/L) | | | | | | | | | | |
| Cadmium | E1640 | 9.3 | -- | | 0.101 | -- | 0.0725 U | 0.0674 U | 0.0657 U | 0.0494 U |
| Chromium | E1640 | 50 | -- | | 0.284 J | -- | 0.164 U | 0.164 U | 0.164 U | 0.164 U |
| Copper | E1640 | 3.1 | -- | | 4.62 | -- | 2.69 | 2.38 | 2.00 | 1.32 |
| Lead | E1640 | 8.1 | -- | | 0.0948 | -- | 0.0514 | 0.0572 | 0.0481 | 0.0298 J |
| Mercury | E1631E | 0.94 | 0.051 | | 0.00112 | -- | 0.000785 | 0.00103 | 0.000675 | 0.000741 |
| Zinc | E1640 | 81 | -- | | 38.7 | -- | 17.6 | 9.55 | 8.91 | 5.14 |
| Pesticides (µg/L) | | | | | | | | | | |
| 2,4'-DDD (o,p'-DDD) | SW8081A | -- | -- | | 0.00057 U | -- | 0.00056 U | 0.00056 U | 0.00057 U | 0.00057 U |
| 2,4'-DDE (o,p'-DDE) | SW8081A | -- | -- | | 0.00047 U | -- | 0.00047 U | 0.00047 U | 0.00047 U | 0.00047 U |
| 2,4'-DDT (o,p'-DDT) | SW8081A | -- | -- | | 0.00067 U | -- | 0.00066 U | 0.00066 U | 0.00067 U | 0.00067 U |
| 4,4'-DDD (p,p'-DDD) | SW8081A | -- | -- | | 0.00053 U | -- | 0.00053 U | 0.00053 U | 0.00053 U | 0.00053 U |
| 4,4'-DDE (p,p'-DDE) | SW8081A | -- | -- | | 0.00046 U | -- | 0.00046 U | 0.00046 U | 0.00046 U | 0.00046 U |
| 4,4'-DDT (p,p'-DDT) | SW8081A | 0.001 | 0.00059 | | 0.00054 U | -- | 0.00053 U | 0.00053 U | 0.00054 U | 0.00054 U |
| Chlordane, alpha- (Chlordane, cis-) | SW8081A | -- | -- | | 0.00048 U | -- | 0.00047 U | 0.00047 U | 0.00048 U | 0.00048 U |
| Chlordane, beta- (Chlordane, trans-) | SW8081A | -- | -- | | 0.00047 U | -- | 0.00047 U | 0.00047 U | 0.00047 U | 0.00047 U |
| Dieldrin | SW8081A | 0.0019 | 0.00014 | | 0.00053 U | -- | 0.00053 U | 0.00053 U | 0.00053 U | 0.00053 U |
| Nonachlor, cis- | SW8081A | -- | -- | | 0.00049 U | -- | 0.00048 U | 0.00048 U | 0.00049 U | 0.00049 U |
| Nonachlor, trans- | SW8081A | -- | -- | | 0.00054 U | -- | 0.00054 U | 0.00054 U | 0.00054 U | 0.00054 U |
| Oxychlordane | SW8081A | -- | -- | | 0.00061 U | -- | 0.0006 U | 0.0006 U | 0.00061 U | 0.00061 U |
| Toxaphene | SW8081A | 0.0002 | -- | | 0.0080 U | -- | 0.0079 U | 0.0079 U | 0.0080 U | 0.0080 U |
| Total chlordane (U = 0) | | 0.004 | 0.00059 | | 0.00031 U | -- | 0.00030 U | 0.00030 U | 0.00031 U | 0.00031 U |
| Total DDx (U = 0) | | 0.001 | 0.00059 | | 0.00034 U | -- | 0.00033 U | 0.00033 U | 0.00034 U | 0.00034 U |

Table 14
Winter 2015 Water Quality Chemistry Results

| FINAL VALIDATED DATA | | | | Task | GWMA_2015_WntrWet | GWMA_2015_WntrWet | GWMA_2015_WntrWet | GWMA_2015_WntrWet | GWMA_2015_WntrWet | GWMA_2015_WntrWet |
|--|------------|----|----|-------------|---|---|-----------------------|-----------------------|-----------------------|-----------------------|
| | | | | Area | Consolidated Slip | Consolidated Slip | Inner Harbor - LA | Inner Harbor - LA | Inner Harbor - LA | Inner Harbor - LA |
| | | | | Location ID | CS-RW-01_201502 | CS-RW-01_201502 | IA-RW-02_201502 | IA-RW-03_201502 | IA-RW-04_201502 | IA-RW-05_201502 |
| | | | | Sample ID | CS-RW-01-G-S-20150224 | CS-RW-1001-G-S-20150224 | IA-RW-02-G-S-20150224 | IA-RW-03-G-S-20150224 | IA-RW-04-G-S-20150224 | IA-RW-05-G-S-20150224 |
| | | | | Sample Date | 02/24/2015 | 02/24/2015 | 02/24/2015 | 02/24/2015 | 02/24/2015 | 02/24/2015 |
| | | | | Depth | 1 m | 1 m | 1 m | 1 m | 1 m | 1 m |
| | | | | Sample Type | N | FD | N | N | N | N |
| | | | | Matrix | WO | WO | WO | WO | WO | WO |
| | | | | X | -118.24521 | -118.24521 | -118.2549 | -118.27405 | -118.27103 | -118.25132 |
| | | | | Y | 33.77486 | 33.77486 | 33.7629 | 33.76229 | 33.75188 | 33.73253 |
| | | | | Method | California Toxics Rule Saltwater Continuous Concentration | Criteria for Protection of Human Health | | | | |
| PCB Congeners - Low resolution (µg/L) | | | | | | | | | | |
| PCB-018 | SW8270CSIM | -- | -- | 0.00040 U | -- | 0.00040 U | 0.00040 U | 0.00041 U | 0.00040 U | |
| PCB-028 | SW8270CSIM | -- | -- | 0.00064 U | -- | 0.00064 U | 0.00063 U | 0.00065 U | 0.00064 U | |
| PCB-037 | SW8270CSIM | -- | -- | 0.00046 U | -- | 0.00046 U | 0.00046 U | 0.00047 U | 0.00046 U | |
| PCB-044 | SW8270CSIM | -- | -- | 0.00076 U | -- | 0.00076 U | 0.00074 U | 0.00076 U | 0.00075 U | |
| PCB-049 | SW8270CSIM | -- | -- | 0.00076 U | -- | 0.00076 U | 0.00074 U | 0.00077 U | 0.00075 U | |
| PCB-052 | SW8270CSIM | -- | -- | 0.00050 U | -- | 0.00050 U | 0.00049 U | 0.00050 U | 0.00049 U | |
| PCB-066 | SW8270CSIM | -- | -- | 0.00056 U | -- | 0.00056 U | 0.00055 U | 0.00056 U | 0.00055 U | |
| PCB-070 | SW8270CSIM | -- | -- | 0.00037 U | -- | 0.00037 U | 0.00036 U | 0.00037 U | 0.00037 U | |
| PCB-074 | SW8270CSIM | -- | -- | 0.00042 U | -- | 0.00042 U | 0.00041 U | 0.00042 U | 0.00041 U | |
| PCB-077 | SW8270CSIM | -- | -- | 0.00063 U | -- | 0.00063 U | 0.00062 U | 0.00064 U | 0.00063 U | |
| PCB-081 | SW8270CSIM | -- | -- | 0.00047 U | -- | 0.00047 U | 0.00046 U | 0.00047 U | 0.00047 U | |
| PCB-087 | SW8270CSIM | -- | -- | 0.00048 U | -- | 0.00048 U | 0.00048 U | 0.00049 U | 0.00048 U | |
| PCB-099 | SW8270CSIM | -- | -- | 0.00059 U | -- | 0.00059 U | 0.00058 U | 0.00059 U | 0.00058 U | |
| PCB-101 | SW8270CSIM | -- | -- | 0.00056 U | -- | 0.00056 U | 0.00055 U | 0.00057 U | 0.00056 U | |
| PCB-105 | SW8270CSIM | -- | -- | 0.00037 U | -- | 0.00037 U | 0.00036 U | 0.00037 U | 0.00036 U | |
| PCB-110 | SW8270CSIM | -- | -- | 0.00049 U | -- | 0.00049 U | 0.00048 U | 0.00049 U | 0.00048 U | |
| PCB-114 | SW8270CSIM | -- | -- | 0.00043 U | -- | 0.00043 U | 0.00042 U | 0.00043 U | 0.00042 U | |
| PCB-118 | SW8270CSIM | -- | -- | 0.00048 U | -- | 0.00048 U | 0.00047 U | 0.00048 U | 0.00047 U | |
| PCB-119 | SW8270CSIM | -- | -- | 0.00042 U | -- | 0.00042 U | 0.00041 U | 0.00042 U | 0.00041 U | |
| PCB-123 | SW8270CSIM | -- | -- | 0.00074 U | -- | 0.00074 U | 0.00073 U | 0.00075 U | 0.00074 U | |
| PCB-126 | SW8270CSIM | -- | -- | 0.00053 U | -- | 0.00053 U | 0.00052 U | 0.00053 U | 0.00052 U | |
| PCB-128 | SW8270CSIM | -- | -- | 0.00068 U | -- | 0.00068 U | 0.00067 U | 0.00069 U | 0.00068 U | |
| PCB-132/153 | SW8270CSIM | -- | -- | 0.0011 U | -- | 0.0011 U | 0.0011 U | 0.0012 U | 0.0011 U | |
| PCB-138/158 | SW8270CSIM | -- | -- | 0.0011 U | -- | 0.0011 U | 0.0011 U | 0.0011 U | 0.0011 U | |
| PCB-149 | SW8270CSIM | -- | -- | 0.00049 U | -- | 0.00049 U | 0.00048 U | 0.00050 U | 0.00049 U | |
| PCB-151 | SW8270CSIM | -- | -- | 0.00059 U | -- | 0.00059 U | 0.00058 U | 0.00060 U | 0.00059 U | |
| PCB-156 | SW8270CSIM | -- | -- | 0.00050 U | -- | 0.00050 U | 0.00049 U | 0.00050 U | 0.00049 U | |
| PCB-157 | SW8270CSIM | -- | -- | 0.00073 U | -- | 0.00073 U | 0.00072 U | 0.00074 U | 0.00072 U | |
| PCB-167 | SW8270CSIM | -- | -- | 0.00084 U | -- | 0.00084 U | 0.00083 U | 0.00085 U | 0.00083 U | |
| PCB-168 | SW8270CSIM | -- | -- | 0.00032 U | -- | 0.00032 U | 0.00031 U | 0.00032 U | 0.00032 U | |
| PCB-169 | SW8270CSIM | -- | -- | 0.00055 U | -- | 0.00055 U | 0.00054 U | 0.00055 U | 0.00054 U | |
| PCB-170 | SW8270CSIM | -- | -- | 0.00055 U | -- | 0.00055 U | 0.00054 U | 0.00055 U | 0.00054 U | |
| PCB-177 | SW8270CSIM | -- | -- | 0.00055 U | -- | 0.00055 U | 0.00054 U | 0.00056 U | 0.00055 U | |
| PCB-180 | SW8270CSIM | -- | -- | 0.00070 U | -- | 0.00070 U | 0.00068 U | 0.00070 U | 0.00069 U | |
| PCB-183 | SW8270CSIM | -- | -- | 0.00052 U | -- | 0.00052 U | 0.00051 U | 0.00052 U | 0.00051 U | |
| PCB-187 | SW8270CSIM | -- | -- | 0.00054 U | -- | 0.00054 U | 0.00053 U | 0.00055 U | 0.00054 U | |
| PCB-189 | SW8270CSIM | -- | -- | 0.00039 U | -- | 0.00039 U | 0.00038 U | 0.00039 U | 0.00038 U | |

Table 14
Winter 2015 Water Quality Chemistry Results

| FINAL VALIDATED DATA | | | | Task | GWMA_2015_WntrWet | GWMA_2015_WntrWet | GWMA_2015_WntrWet | GWMA_2015_WntrWet | GWMA_2015_WntrWet | GWMA_2015_WntrWet |
|---|------------|------|---------|-------------|---|---|-----------------------|-----------------------|-----------------------|-----------------------|
| | | | | Area | Consolidated Slip | Consolidated Slip | Inner Harbor - LA | Inner Harbor - LA | Inner Harbor - LA | Inner Harbor - LA |
| | | | | Location ID | CS-RW-01_201502 | CS-RW-01_201502 | IA-RW-02_201502 | IA-RW-03_201502 | IA-RW-04_201502 | IA-RW-05_201502 |
| | | | | Sample ID | CS-RW-01-G-S-20150224 | CS-RW-1001-G-S-20150224 | IA-RW-02-G-S-20150224 | IA-RW-03-G-S-20150224 | IA-RW-04-G-S-20150224 | IA-RW-05-G-S-20150224 |
| | | | | Sample Date | 02/24/2015 | 02/24/2015 | 02/24/2015 | 02/24/2015 | 02/24/2015 | 02/24/2015 |
| | | | | Depth | 1 m | 1 m | 1 m | 1 m | 1 m | 1 m |
| | | | | Sample Type | N | FD | N | N | N | N |
| | | | | Matrix | WO | WO | WO | WO | WO | WO |
| | | | | X | -118.24521 | -118.24521 | -118.2549 | -118.27405 | -118.27103 | -118.25132 |
| | | | | Y | 33.77486 | 33.77486 | 33.7629 | 33.76229 | 33.75188 | 33.73253 |
| | | | | Method | California Toxics Rule Saltwater Continuous Concentration | Criteria for Protection of Human Health | | | | |
| PCB-194 | SW8270CSIM | -- | -- | 0.00041 U | -- | 0.00041 U | 0.00040 U | 0.00041 U | 0.00040 U | |
| PCB-195 | SW8270CSIM | -- | -- | 0.00034 U | -- | 0.00034 U | 0.00034 U | 0.00035 U | 0.00034 U | |
| PCB-201 | SW8270CSIM | -- | -- | 0.00070 U | -- | 0.00070 U | 0.00069 U | 0.00071 U | 0.00070 U | |
| PCB-206 | SW8270CSIM | -- | -- | 0.00025 U | -- | 0.00025 U | 0.00024 U | 0.00025 U | 0.00025 U | |
| Total PCB congener - low resolution (U = 0) | -- | 0.03 | 0.00017 | 0.00055 U | -- | 0.00055 U | 0.00055 U | 0.00060 U | 0.00055 U | |

Table 14
Winter 2015 Water Quality Chemistry Results

| FINAL VALIDATED DATA | | | | Task | GWMA_2015_WntrWet | GWMA_2015_WntrWet | GWMA_2015_WntrWet | GWMA_2015_WntrWet | GWMA_2015_WntrWet | GWMA_2015_WntrWet |
|---------------------------------------|---------|--------|---------|---|-----------------------|-----------------------|-----------------------|-------------------------|-----------------------|-----------------------|
| | | | | Area | Inner Harbor - LA | Fish Harbor | Outer Harbor - LA | Outer Harbor - LA | Outer Harbor - LA | Cabrillo Marina |
| | | | | Location ID | IA-RW-06_201502 | FH-RW-07_201502 | OB-RW-08_201502 | OB-RW-08_201502 | OB-RW-09_201502 | CM-RW-10_201502 |
| | | | | Sample ID | IA-RW-06-G-S-20150224 | FH-RW-07-G-S-20150224 | OB-RW-08-G-S-20150224 | OB-RW-1008-G-B-20150224 | OB-RW-09-G-S-20150224 | CM-RW-10-G-S-20150224 |
| | | | | Sample Date | 02/24/2015 | 02/24/2015 | 02/24/2015 | 02/24/2015 | 02/24/2015 | 02/24/2015 |
| | | | | Depth | 1 m | 1 m | 1 m | 21 m | 1 m | 1 m |
| | | | | Sample Type | N | N | N | FD | N | N |
| | | | | Matrix | WO | WO | WO | WO | WO | WO |
| | | | | X | -118.27142 | -118.26717 | -118.38556 | -118.38556 | -118.52194 | -118.27901 |
| | | | | Y | 33.72563 | 33.73574 | 33.95222 | 33.95222 | 33.92361 | 33.71946 |
| | | | | California Toxics Rule Saltwater Continuous Concentration | | | | | | |
| | | | | Criteria for Protection of Human Health | | | | | | |
| | | | | Method | | | | | | |
| Conventional Parameters (mg/L) | | | | | | | | | | |
| Total suspended solids (surface) | SM2540D | -- | -- | 1.0 | 3.6 | 0.95 U | -- | 0.95 U | 0.95 U | |
| Total suspended solids (middle)* | SM2540D | -- | -- | 0.95 U | 4.3 | 0.95 U | -- | 0.95 U | 0.95 U | |
| Total suspended solids (bottom)* | SM2540D | -- | -- | 0.95 U | 8.5 | 0.95 U | 0.95 U | 0.95 U | 14 | |
| Metals (µg/L) | | | | | | | | | | |
| Cadmium | E1640 | -- | -- | 0.0510 U | 0.0677 U | 0.0429 U | -- | 0.0478 U | 0.0758 U | |
| Chromium | E1640 | -- | -- | 0.164 U | 0.258 J | 0.399 J | -- | 0.438 J | 0.164 U | |
| Copper | E1640 | -- | -- | 2.08 | 5.22 | 1.71 | -- | 1.54 | 9.30 | |
| Lead | E1640 | -- | -- | 0.180 | 0.651 | 0.128 | -- | 0.124 | 0.101 | |
| Mercury | E1631E | -- | -- | 0.00335 | 0.0136 | 0.00422 | -- | 0.00355 | 0.00138 | |
| Zinc | E1640 | -- | -- | 5.26 | 12.1 | 2.34 | -- | 2.97 | 29.3 | |
| Metals, Dissolved (µg/L) | | | | | | | | | | |
| Cadmium | E1640 | 9.3 | -- | 0.0556 U | 0.0718 U | 0.0429 U | -- | 0.0428 U | 0.0815 U | |
| Chromium | E1640 | 50 | -- | 0.164 U | 0.164 U | 0.230 J | -- | 0.231 J | 0.164 U | |
| Copper | E1640 | 3.1 | -- | 1.43 | 2.77 | 0.750 | -- | 0.854 | 7.55 | |
| Lead | E1640 | 8.1 | -- | 0.0425 | 0.0694 | 0.0307 | -- | 0.0222 J | 0.0325 | |
| Mercury | E1631E | 0.94 | 0.051 | 0.000448 J | 0.00113 | 0.00164 | -- | 0.00224 | 0.000884 | |
| Zinc | E1640 | 81 | -- | 5.65 | 10.8 | 2.29 | -- | 3.22 | 29.1 | |
| Pesticides (µg/L) | | | | | | | | | | |
| 2,4'-DDD (o,p'-DDD) | SW8081A | -- | -- | 0.00057 U | 0.00057 U | 0.00056 U | -- | 0.00056 U | 0.00057 U | |
| 2,4'-DDE (o,p'-DDE) | SW8081A | -- | -- | 0.00047 U | 0.00047 U | 0.00047 U | -- | 0.00047 U | 0.00047 U | |
| 2,4'-DDT (o,p'-DDT) | SW8081A | -- | -- | 0.00067 U | 0.00067 U | 0.00066 U | -- | 0.00066 U | 0.00067 U | |
| 4,4'-DDD (p,p'-DDD) | SW8081A | -- | -- | 0.00053 U | 0.00053 U | 0.00053 U | -- | 0.00053 U | 0.00053 U | |
| 4,4'-DDE (p,p'-DDE) | SW8081A | -- | -- | 0.00046 U | 0.00046 U | 0.00046 U | -- | 0.00046 U | 0.00046 U | |
| 4,4'-DDT (p,p'-DDT) | SW8081A | 0.001 | 0.00059 | 0.00054 U | 0.00054 U | 0.00053 U | -- | 0.00053 U | 0.00054 U | |
| Chlordane, alpha- (Chlordane, cis-) | SW8081A | -- | -- | 0.00048 U | 0.00048 U | 0.00047 U | -- | 0.00047 U | 0.00048 U | |
| Chlordane, beta- (Chlordane, trans-) | SW8081A | -- | -- | 0.00047 U | 0.00047 U | 0.00047 U | -- | 0.00047 U | 0.00047 U | |
| Dieldrin | SW8081A | 0.0019 | 0.00014 | 0.00053 U | 0.00053 U | 0.00053 U | -- | 0.00053 U | 0.00053 U | |
| Nonachlor, cis- | SW8081A | -- | -- | 0.00049 U | 0.00049 U | 0.00048 U | -- | 0.00048 U | 0.00049 U | |
| Nonachlor, trans- | SW8081A | -- | -- | 0.00054 U | 0.00054 U | 0.00054 U | -- | 0.00054 U | 0.00054 U | |
| Oxychlordane | SW8081A | -- | -- | 0.00061 U | 0.00061 U | 0.0006 U | -- | 0.0006 U | 0.00061 U | |
| Toxaphene | SW8081A | 0.0002 | -- | 0.0080 U | 0.0080 U | 0.0079 U | -- | 0.0079 U | 0.0080 U | |
| Total chlordane (U = 0) | | 0.004 | 0.00059 | 0.00031 U | 0.00031 U | 0.00030 U | -- | 0.00030 U | 0.00031 U | |
| Total DDx (U = 0) | | 0.001 | 0.00059 | 0.00034 U | 0.00034 U | 0.00033 U | -- | 0.00033 U | 0.00034 U | |

Table 14
Winter 2015 Water Quality Chemistry Results

| FINAL VALIDATED DATA | | | | Task | GWMA_2015_WntrWet | GWMA_2015_WntrWet | GWMA_2015_WntrWet | GWMA_2015_WntrWet | GWMA_2015_WntrWet | GWMA_2015_WntrWet |
|--|------------|----|----|---|-----------------------|-----------------------|-----------------------|-------------------------|-----------------------|-----------------------|
| | | | | Area | Inner Harbor - LA | Fish Harbor | Outer Harbor - LA | Outer Harbor - LA | Outer Harbor - LA | Cabrillo Marina |
| | | | | Location ID | IA-RW-06_201502 | FH-RW-07_201502 | OB-RW-08_201502 | OB-RW-08_201502 | OB-RW-09_201502 | CM-RW-10_201502 |
| | | | | Sample ID | IA-RW-06-G-S-20150224 | FH-RW-07-G-S-20150224 | OB-RW-08-G-S-20150224 | OB-RW-1008-G-B-20150224 | OB-RW-09-G-S-20150224 | CM-RW-10-G-S-20150224 |
| | | | | Sample Date | 02/24/2015 | 02/24/2015 | 02/24/2015 | 02/24/2015 | 02/24/2015 | 02/24/2015 |
| | | | | Depth | 1 m | 1 m | 1 m | 21 m | 1 m | 1 m |
| | | | | Sample Type | N | N | N | FD | N | N |
| | | | | Matrix | WO | WO | WO | WO | WO | WO |
| | | | | X | -118.27142 | -118.26717 | -118.38556 | -118.38556 | -118.52194 | -118.27901 |
| | | | | Y | 33.72563 | 33.73574 | 33.95222 | 33.95222 | 33.92361 | 33.71946 |
| | | | | Method | | | | | | |
| | | | | California Toxics Rule Saltwater Continuous Concentration | | | | | | |
| | | | | Criteria for Protection of Human Health | | | | | | |
| PCB Congeners - Low resolution (µg/L) | | | | | | | | | | |
| PCB-018 | SW8270CSIM | -- | -- | 0.00040 U | 0.00040 U | 0.00040 U | -- | 0.00040 U | 0.00040 U | |
| PCB-028 | SW8270CSIM | -- | -- | 0.00064 U | 0.00064 U | 0.00063 U | -- | 0.00063 U | 0.00064 U | |
| PCB-037 | SW8270CSIM | -- | -- | 0.00046 U | 0.00046 U | 0.00046 U | -- | 0.00046 U | 0.00046 U | |
| PCB-044 | SW8270CSIM | -- | -- | 0.00076 U | 0.00076 U | 0.00074 U | -- | 0.00074 U | 0.00076 U | |
| PCB-049 | SW8270CSIM | -- | -- | 0.00076 U | 0.00076 U | 0.00074 U | -- | 0.00074 U | 0.00076 U | |
| PCB-052 | SW8270CSIM | -- | -- | 0.00050 U | 0.00050 U | 0.00049 U | -- | 0.00049 U | 0.00050 U | |
| PCB-066 | SW8270CSIM | -- | -- | 0.00056 U | 0.00056 U | 0.00055 U | -- | 0.00055 U | 0.00056 U | |
| PCB-070 | SW8270CSIM | -- | -- | 0.00037 U | 0.00037 U | 0.00036 U | -- | 0.00036 U | 0.00037 U | |
| PCB-074 | SW8270CSIM | -- | -- | 0.00042 U | 0.00042 U | 0.00041 U | -- | 0.00041 U | 0.00042 U | |
| PCB-077 | SW8270CSIM | -- | -- | 0.00063 U | 0.00063 U | 0.00062 U | -- | 0.00062 U | 0.00063 U | |
| PCB-081 | SW8270CSIM | -- | -- | 0.00047 U | 0.00047 U | 0.00046 U | -- | 0.00046 U | 0.00047 U | |
| PCB-087 | SW8270CSIM | -- | -- | 0.00048 U | 0.00048 U | 0.00048 U | -- | 0.00048 U | 0.00048 U | |
| PCB-099 | SW8270CSIM | -- | -- | 0.00059 U | 0.00059 U | 0.00058 U | -- | 0.00058 U | 0.00059 U | |
| PCB-101 | SW8270CSIM | -- | -- | 0.00056 U | 0.00056 U | 0.00055 U | -- | 0.00055 U | 0.00056 U | |
| PCB-105 | SW8270CSIM | -- | -- | 0.00037 U | 0.00037 U | 0.00036 U | -- | 0.00036 U | 0.00037 U | |
| PCB-110 | SW8270CSIM | -- | -- | 0.00049 U | 0.00049 U | 0.00048 U | -- | 0.00048 U | 0.00049 U | |
| PCB-114 | SW8270CSIM | -- | -- | 0.00043 U | 0.00043 U | 0.00042 U | -- | 0.00042 U | 0.00043 U | |
| PCB-118 | SW8270CSIM | -- | -- | 0.00048 U | 0.00048 U | 0.00047 U | -- | 0.00047 U | 0.00048 U | |
| PCB-119 | SW8270CSIM | -- | -- | 0.00042 U | 0.00042 U | 0.00041 U | -- | 0.00041 U | 0.00042 U | |
| PCB-123 | SW8270CSIM | -- | -- | 0.00074 U | 0.00074 U | 0.00073 U | -- | 0.00073 U | 0.00074 U | |
| PCB-126 | SW8270CSIM | -- | -- | 0.00053 U | 0.00053 U | 0.00052 U | -- | 0.00052 U | 0.00053 U | |
| PCB-128 | SW8270CSIM | -- | -- | 0.00068 U | 0.00068 U | 0.00067 U | -- | 0.00067 U | 0.00068 U | |
| PCB-132/153 | SW8270CSIM | -- | -- | 0.0011 U | 0.0011 U | 0.0011 U | -- | 0.0011 U | 0.0011 U | |
| PCB-138/158 | SW8270CSIM | -- | -- | 0.0011 U | 0.0011 U | 0.0011 U | -- | 0.0011 U | 0.0011 U | |
| PCB-149 | SW8270CSIM | -- | -- | 0.00049 U | 0.00049 U | 0.00048 U | -- | 0.00048 U | 0.00049 U | |
| PCB-151 | SW8270CSIM | -- | -- | 0.00059 U | 0.00059 U | 0.00058 U | -- | 0.00058 U | 0.00059 U | |
| PCB-156 | SW8270CSIM | -- | -- | 0.00050 U | 0.00050 U | 0.00049 U | -- | 0.00049 U | 0.00050 U | |
| PCB-157 | SW8270CSIM | -- | -- | 0.00073 U | 0.00073 U | 0.00072 U | -- | 0.00072 U | 0.00073 U | |
| PCB-167 | SW8270CSIM | -- | -- | 0.00084 U | 0.00084 U | 0.00083 U | -- | 0.00083 U | 0.00084 U | |
| PCB-168 | SW8270CSIM | -- | -- | 0.00032 U | 0.00032 U | 0.00031 U | -- | 0.00031 U | 0.00032 U | |
| PCB-169 | SW8270CSIM | -- | -- | 0.00055 U | 0.00055 U | 0.00054 U | -- | 0.00054 U | 0.00055 U | |
| PCB-170 | SW8270CSIM | -- | -- | 0.00055 U | 0.00055 U | 0.00054 U | -- | 0.00054 U | 0.00055 U | |
| PCB-177 | SW8270CSIM | -- | -- | 0.00055 U | 0.00055 U | 0.00054 U | -- | 0.00054 U | 0.00055 U | |
| PCB-180 | SW8270CSIM | -- | -- | 0.00070 U | 0.00070 U | 0.00068 U | -- | 0.00068 U | 0.00070 U | |
| PCB-183 | SW8270CSIM | -- | -- | 0.00052 U | 0.00052 U | 0.00051 U | -- | 0.00051 U | 0.00052 U | |
| PCB-187 | SW8270CSIM | -- | -- | 0.00054 U | 0.00054 U | 0.00053 U | -- | 0.00053 U | 0.00054 U | |
| PCB-189 | SW8270CSIM | -- | -- | 0.00039 U | 0.00039 U | 0.00038 U | -- | 0.00038 U | 0.00039 U | |

Table 14
Winter 2015 Water Quality Chemistry Results

| FINAL VALIDATED DATA | | | | Task | GWMA_2015_WntrWet | GWMA_2015_WntrWet | GWMA_2015_WntrWet | GWMA_2015_WntrWet | GWMA_2015_WntrWet | GWMA_2015_WntrWet |
|---|------------|------|---------|-------------|---|---|-----------------------|-------------------------|-----------------------|-----------------------|
| | | | | Area | Inner Harbor - LA | Fish Harbor | Outer Harbor - LA | Outer Harbor - LA | Outer Harbor - LA | Cabrillo Marina |
| | | | | Location ID | IA-RW-06_201502 | FH-RW-07_201502 | OB-RW-08_201502 | OB-RW-08_201502 | OB-RW-09_201502 | CM-RW-10_201502 |
| | | | | Sample ID | IA-RW-06-G-S-20150224 | FH-RW-07-G-S-20150224 | OB-RW-08-G-S-20150224 | OB-RW-1008-G-B-20150224 | OB-RW-09-G-S-20150224 | CM-RW-10-G-S-20150224 |
| | | | | Sample Date | 02/24/2015 | 02/24/2015 | 02/24/2015 | 02/24/2015 | 02/24/2015 | 02/24/2015 |
| | | | | Depth | 1 m | 1 m | 1 m | 21 m | 1 m | 1 m |
| | | | | Sample Type | N | N | N | FD | N | N |
| | | | | Matrix | WO | WO | WO | WO | WO | WO |
| | | | | X | -118.27142 | -118.26717 | -118.38556 | -118.38556 | -118.52194 | -118.27901 |
| | | | | Y | 33.72563 | 33.73574 | 33.95222 | 33.95222 | 33.92361 | 33.71946 |
| | | | | Method | California Toxics Rule Saltwater Continuous Concentration | Criteria for Protection of Human Health | | | | |
| PCB-194 | SW8270CSIM | -- | -- | 0.00041 U | 0.00041 U | 0.00040 U | -- | 0.00040 U | 0.00041 U | |
| PCB-195 | SW8270CSIM | -- | -- | 0.00034 U | 0.00034 U | 0.00034 U | -- | 0.00034 U | 0.00034 U | |
| PCB-201 | SW8270CSIM | -- | -- | 0.00070 U | 0.00070 U | 0.00069 U | -- | 0.00069 U | 0.00070 U | |
| PCB-206 | SW8270CSIM | -- | -- | 0.00025 U | 0.00025 U | 0.00024 U | -- | 0.00024 U | 0.00025 U | |
| Total PCB congener - low resolution (U = 0) | -- | 0.03 | 0.00017 | 0.00055 U | 0.00055 U | 0.00055 U | -- | 0.00055 U | 0.00055 U | |

Table 14
Winter 2015 Water Quality Chemistry Results

| FINAL VALIDATED DATA | | | | Task | GWMA_2015_WntrWet | GWMA_2015_WntrWet | GWMA_2015_WntrWet | GWMA_2015_WntrWet | GWMA_2015_WntrWet | GWMA_2015_WntrWet |
|---------------------------------------|---------|--------|---------|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| | | | | Area | Cabrillo Beach | Inner Harbor - LB | Inner Harbor - LB | Inner Harbor - LB | Inner Harbor - LB | Outer Harbor - LB |
| | | | | Location ID | CB-RW-11_201502 | IB-RW-12_201502 | IB-RW-13_201502 | IB-RW-14_201502 | IB-RW-15_201502 | OB-RW-16_201502 |
| | | | | Sample ID | CB-RW-11-G-S-20150224 | IB-RW-12-G-S-20150224 | IB-RW-13-G-S-20150224 | IB-RW-14-G-S-20150224 | IB-RW-15-G-S-20150224 | OB-RW-16-G-S-20150224 |
| | | | | Sample Date | 02/24/2015 | 02/24/2015 | 02/24/2015 | 02/24/2015 | 02/24/2015 | 02/24/2015 |
| | | | | Depth | 1 m | 1 m | 1 m | 1 m | 1 m | 1 m |
| | | | | Sample Type | N | N | N | N | N | N |
| | | | | Matrix | WO | WO | WO | WO | WO | WO |
| | | | | X | -118.46222 | -118.38833 | -118.47361 | -118.48083 | -118.25167 | -118.41139 |
| | | | | Y | 33.90806 | 33.80583 | 33.81056 | 33.75722 | 33.87306 | 33.93611 |
| | | | | California Toxics Rule Saltwater Continuous Concentration | | | | | | |
| | | | | Criteria for Protection of Human Health | | | | | | |
| | | | | Method | | | | | | |
| Conventional Parameters (mg/L) | | | | | | | | | | |
| Total suspended solids (surface) | SM2540D | -- | -- | 2.6 | 0.95 U | 1.0 | 0.95 U | -- | 1.1 | |
| Total suspended solids (middle)* | SM2540D | -- | -- | 3.8 | 1.0 | 1.6 | 0.95 U | 0.95 U | 0.95 U | |
| Total suspended solids (bottom)* | SM2540D | -- | -- | 3.6 | 0.95 U | 2.7 | 0.95 U | -- | 0.95 U | |
| Metals (µg/L) | | | | | | | | | | |
| Cadmium | E1640 | -- | -- | 0.0597 U | 0.0636 U | 0.0513 U | 0.0466 U | 0.0428 U | 0.0421 U | |
| Chromium | E1640 | -- | -- | 0.532 J | 0.465 J | 1.02 J | 0.346 J | 0.319 J | 0.368 J | |
| Copper | E1640 | -- | -- | 3.04 | 6.55 | 2.20 | 1.51 | 1.73 | 1.07 | |
| Lead | E1640 | -- | -- | 0.204 | 0.424 | 0.220 | 0.126 | 0.144 | 0.140 | |
| Mercury | E1631E | -- | -- | 0.00439 | 0.00873 | 0.00424 | 0.00341 | 0.00318 | 0.00333 | |
| Zinc | E1640 | -- | -- | 8.44 | 14.3 | 10.6 | 3.31 | 4.02 | 2.38 | |
| Metals, Dissolved (µg/L) | | | | | | | | | | |
| Cadmium | E1640 | 9.3 | -- | 0.0628 U | 0.0589 U | 0.0497 U | 0.0491 U | 0.0453 U | 0.0440 U | |
| Chromium | E1640 | 50 | -- | 0.230 J | 0.205 J | 0.237 J | 0.225 J | 0.227 J | 0.218 J | |
| Copper | E1640 | 3.1 | -- | 1.49 | 3.35 | 1.65 | 0.853 | 1.05 | 0.760 | |
| Lead | E1640 | 8.1 | -- | 0.0238 J | 0.0630 | 0.0306 | 0.0214 J | 0.0278 J | 0.0390 | |
| Mercury | E1631E | 0.94 | 0.051 | 0.00156 | 0.000214 J | 0.00165 | 0.00170 | 0.00182 | 0.00211 | |
| Zinc | E1640 | 81 | -- | 7.51 | 11.9 | 8.30 | 3.52 | 3.08 | 2.27 | |
| Pesticides (µg/L) | | | | | | | | | | |
| 2,4'-DDD (o,p'-DDD) | SW8081A | -- | -- | 0.00056 U | 0.00057 U | 0.00056 U | 0.00056 U | 0.00056 U | 0.00057 U | |
| 2,4'-DDE (o,p'-DDE) | SW8081A | -- | -- | 0.00047 U | 0.00047 U | 0.00047 U | 0.00047 U | 0.00047 U | 0.00048 U | |
| 2,4'-DDT (o,p'-DDT) | SW8081A | -- | -- | 0.00066 U | 0.00067 U | 0.00066 U | 0.00066 U | 0.00066 U | 0.00067 U | |
| 4,4'-DDD (p,p'-DDD) | SW8081A | -- | -- | 0.00053 U | 0.00053 U | 0.00053 U | 0.00053 U | 0.00053 U | 0.00054 U | |
| 4,4'-DDE (p,p'-DDE) | SW8081A | -- | -- | 0.00046 U | 0.00046 U | 0.00046 U | 0.00046 U | 0.00046 U | 0.00047 U | |
| 4,4'-DDT (p,p'-DDT) | SW8081A | 0.001 | 0.00059 | 0.00053 U | 0.00054 U | 0.00053 U | 0.00053 U | 0.00053 U | 0.00054 U | |
| Chlordane, alpha- (Chlordane, cis-) | SW8081A | -- | -- | 0.00047 U | 0.00048 U | 0.00047 U | 0.00047 U | 0.00047 U | 0.00048 U | |
| Chlordane, beta- (Chlordane, trans-) | SW8081A | -- | -- | 0.00047 U | 0.00047 U | 0.00047 U | 0.00047 U | 0.00047 U | 0.00048 U | |
| Dieldrin | SW8081A | 0.0019 | 0.00014 | 0.00053 U | 0.00053 U | 0.00053 U | 0.00053 U | 0.00053 U | 0.00054 U | |
| Nonachlor, cis- | SW8081A | -- | -- | 0.00048 U | 0.00049 U | 0.00048 U | 0.00048 U | 0.00048 U | 0.00049 U | |
| Nonachlor, trans- | SW8081A | -- | -- | 0.00054 U | 0.00054 U | 0.00054 U | 0.00054 U | 0.00054 U | 0.00055 U | |
| Oxychlordane | SW8081A | -- | -- | 0.0006 U | 0.00061 U | 0.00060 U | 0.00060 U | 0.00060 U | 0.00061 U | |
| Toxaphene | SW8081A | 0.0002 | -- | 0.0079 U | 0.0080 U | 0.0079 U | 0.0079 U | 0.0079 U | 0.0081 U | |
| Total chlordane (U = 0) | | 0.004 | 0.00059 | 0.00030 U | 0.00031 U | 0.00030 U | 0.00030 U | 0.00030 U | 0.00031 U | |
| Total DDx (U = 0) | | 0.001 | 0.00059 | 0.00033 U | 0.00034 U | 0.00033 U | 0.00033 U | 0.00033 U | 0.00034 U | |

Table 14
Winter 2015 Water Quality Chemistry Results

| FINAL VALIDATED DATA | | | | Task | GWMA_2015_WntrWet | GWMA_2015_WntrWet | GWMA_2015_WntrWet | GWMA_2015_WntrWet | GWMA_2015_WntrWet | GWMA_2015_WntrWet |
|--|------------|----|----|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| | | | | Area | Cabrillo Beach | Inner Harbor - LB | Inner Harbor - LB | Inner Harbor - LB | Inner Harbor - LB | Outer Harbor - LB |
| | | | | Location ID | CB-RW-11_201502 | IB-RW-12_201502 | IB-RW-13_201502 | IB-RW-14_201502 | IB-RW-15_201502 | OB-RW-16_201502 |
| | | | | Sample ID | CB-RW-11-G-S-20150224 | IB-RW-12-G-S-20150224 | IB-RW-13-G-S-20150224 | IB-RW-14-G-S-20150224 | IB-RW-15-G-S-20150224 | OB-RW-16-G-S-20150224 |
| | | | | Sample Date | 02/24/2015 | 02/24/2015 | 02/24/2015 | 02/24/2015 | 02/24/2015 | 02/24/2015 |
| | | | | Depth | 1 m | 1 m | 1 m | 1 m | 1 m | 1 m |
| | | | | Sample Type | N | N | N | N | N | N |
| | | | | Matrix | WO | WO | WO | WO | WO | WO |
| | | | | X | -118.46222 | -118.38833 | -118.47361 | -118.48083 | -118.25167 | -118.41139 |
| | | | | Y | 33.90806 | 33.80583 | 33.81056 | 33.75722 | 33.87306 | 33.93611 |
| | | | | Method | | | | | | |
| | | | | California Toxics Rule Saltwater Continuous Concentration | | | | | | |
| | | | | Criteria for Protection of Human Health | | | | | | |
| PCB Congeners - Low resolution (µg/L) | | | | | | | | | | |
| PCB-018 | SW8270CSIM | -- | -- | 0.00040 U | 0.00040 U | 0.00040 U | 0.00040 U | 0.00040 U | 0.00040 U | 0.00040 U |
| PCB-028 | SW8270CSIM | -- | -- | 0.00063 U | 0.00063 U | 0.00063 U | 0.00063 U | 0.00063 U | 0.00063 U | 0.00064 U |
| PCB-037 | SW8270CSIM | -- | -- | 0.00046 U | 0.00046 U | 0.00046 U | 0.00046 U | 0.00046 U | 0.00046 U | 0.00046 U |
| PCB-044 | SW8270CSIM | -- | -- | 0.00074 U | 0.00074 U | 0.00074 U | 0.00074 U | 0.00074 U | 0.00074 U | 0.00075 U |
| PCB-049 | SW8270CSIM | -- | -- | 0.00074 U | 0.00074 U | 0.00074 U | 0.00074 U | 0.00074 U | 0.00074 U | 0.00075 U |
| PCB-052 | SW8270CSIM | -- | -- | 0.00049 U | 0.00049 U | 0.00049 U | 0.00049 U | 0.00049 U | 0.00049 U | 0.00049 U |
| PCB-066 | SW8270CSIM | -- | -- | 0.00055 U | 0.00055 U | 0.00055 U | 0.00055 U | 0.00055 U | 0.00055 U | 0.00055 U |
| PCB-070 | SW8270CSIM | -- | -- | 0.00036 U | 0.00036 U | 0.00036 U | 0.00036 U | 0.00036 U | 0.00036 U | 0.00037 U |
| PCB-074 | SW8270CSIM | -- | -- | 0.00041 U | 0.00041 U | 0.00041 U | 0.00041 U | 0.00041 U | 0.00041 U | 0.00041 U |
| PCB-077 | SW8270CSIM | -- | -- | 0.00062 U | 0.00062 U | 0.00062 U | 0.00062 U | 0.00062 U | 0.00062 U | 0.00063 U |
| PCB-081 | SW8270CSIM | -- | -- | 0.00046 U | 0.00046 U | 0.00046 U | 0.00046 U | 0.00046 U | 0.00046 U | 0.00047 U |
| PCB-087 | SW8270CSIM | -- | -- | 0.00048 U | 0.00048 U | 0.00048 U | 0.00048 U | 0.00048 U | 0.00048 U | 0.00048 U |
| PCB-099 | SW8270CSIM | -- | -- | 0.00058 U | 0.00058 U | 0.00058 U | 0.00058 U | 0.00058 U | 0.00058 U | 0.00058 U |
| PCB-101 | SW8270CSIM | -- | -- | 0.00055 U | 0.00055 U | 0.00055 U | 0.00055 U | 0.00055 U | 0.00055 U | 0.00056 U |
| PCB-105 | SW8270CSIM | -- | -- | 0.00036 U | 0.00036 U | 0.00036 U | 0.00036 U | 0.00036 U | 0.00036 U | 0.00036 U |
| PCB-110 | SW8270CSIM | -- | -- | 0.00048 U | 0.00048 U | 0.00048 U | 0.00048 U | 0.00048 U | 0.00048 U | 0.00048 U |
| PCB-114 | SW8270CSIM | -- | -- | 0.00042 U | 0.00042 U | 0.00042 U | 0.00042 U | 0.00042 U | 0.00042 U | 0.00042 U |
| PCB-118 | SW8270CSIM | -- | -- | 0.00047 U | 0.00047 U | 0.00047 U | 0.00047 U | 0.00047 U | 0.00047 U | 0.00047 U |
| PCB-119 | SW8270CSIM | -- | -- | 0.00041 U | 0.00041 U | 0.00041 U | 0.00041 U | 0.00041 U | 0.00041 U | 0.00041 U |
| PCB-123 | SW8270CSIM | -- | -- | 0.00073 U | 0.00073 U | 0.00073 U | 0.00073 U | 0.00073 U | 0.00073 U | 0.00074 U |
| PCB-126 | SW8270CSIM | -- | -- | 0.00052 U | 0.00052 U | 0.00052 U | 0.00052 U | 0.00052 U | 0.00052 U | 0.00052 U |
| PCB-128 | SW8270CSIM | -- | -- | 0.00067 U | 0.00067 U | 0.00067 U | 0.00067 U | 0.00067 U | 0.00067 U | 0.00068 U |
| PCB-132/153 | SW8270CSIM | -- | -- | 0.0011 U | 0.0011 U | 0.0011 U | 0.0011 U | 0.0011 U | 0.0011 U | 0.0011 U |
| PCB-138/158 | SW8270CSIM | -- | -- | 0.0011 U | 0.0011 U | 0.0011 U | 0.0011 U | 0.0011 U | 0.0011 U | 0.0011 U |
| PCB-149 | SW8270CSIM | -- | -- | 0.00048 U | 0.00048 U | 0.00048 U | 0.00048 U | 0.00048 U | 0.00048 U | 0.00049 U |
| PCB-151 | SW8270CSIM | -- | -- | 0.00058 U | 0.00058 U | 0.00058 U | 0.00058 U | 0.00058 U | 0.00058 U | 0.00059 U |
| PCB-156 | SW8270CSIM | -- | -- | 0.00049 U | 0.00049 U | 0.00049 U | 0.00049 U | 0.00049 U | 0.00049 U | 0.00049 U |
| PCB-157 | SW8270CSIM | -- | -- | 0.00072 U | 0.00072 U | 0.00072 U | 0.00072 U | 0.00072 U | 0.00072 U | 0.00072 U |
| PCB-167 | SW8270CSIM | -- | -- | 0.00083 U | 0.00083 U | 0.00083 U | 0.00083 U | 0.00083 U | 0.00083 U | 0.00083 U |
| PCB-168 | SW8270CSIM | -- | -- | 0.00031 U | 0.00031 U | 0.00031 U | 0.00031 U | 0.00031 U | 0.00031 U | 0.00032 U |
| PCB-169 | SW8270CSIM | -- | -- | 0.00054 U | 0.00054 U | 0.00054 U | 0.00054 U | 0.00054 U | 0.00054 U | 0.00054 U |
| PCB-170 | SW8270CSIM | -- | -- | 0.00054 U | 0.00054 U | 0.00054 U | 0.00054 U | 0.00054 U | 0.00054 U | 0.00054 U |
| PCB-177 | SW8270CSIM | -- | -- | 0.00054 U | 0.00054 U | 0.00054 U | 0.00054 U | 0.00054 U | 0.00054 U | 0.00055 U |
| PCB-180 | SW8270CSIM | -- | -- | 0.00068 U | 0.00068 U | 0.00068 U | 0.00068 U | 0.00068 U | 0.00068 U | 0.00069 U |
| PCB-183 | SW8270CSIM | -- | -- | 0.00051 U | 0.00051 U | 0.00051 U | 0.00051 U | 0.00051 U | 0.00051 U | 0.00051 U |
| PCB-187 | SW8270CSIM | -- | -- | 0.00053 U | 0.00053 U | 0.00053 U | 0.00053 U | 0.00053 U | 0.00053 U | 0.00054 U |
| PCB-189 | SW8270CSIM | -- | -- | 0.00038 U | 0.00038 U | 0.00038 U | 0.00038 U | 0.00038 U | 0.00038 U | 0.00038 U |

Table 14
Winter 2015 Water Quality Chemistry Results

| FINAL VALIDATED DATA | | | | Task | GWMA_2015_WntrWet | GWMA_2015_WntrWet | GWMA_2015_WntrWet | GWMA_2015_WntrWet | GWMA_2015_WntrWet | GWMA_2015_WntrWet |
|---|------------|------|---------|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| | | | | Area | Cabrillo Beach | Inner Harbor - LB | Inner Harbor - LB | Inner Harbor - LB | Inner Harbor - LB | Outer Harbor - LB |
| | | | | Location ID | CB-RW-11_201502 | IB-RW-12_201502 | IB-RW-13_201502 | IB-RW-14_201502 | IB-RW-15_201502 | OB-RW-16_201502 |
| | | | | Sample ID | CB-RW-11-G-S-20150224 | IB-RW-12-G-S-20150224 | IB-RW-13-G-S-20150224 | IB-RW-14-G-S-20150224 | IB-RW-15-G-S-20150224 | OB-RW-16-G-S-20150224 |
| | | | | Sample Date | 02/24/2015 | 02/24/2015 | 02/24/2015 | 02/24/2015 | 02/24/2015 | 02/24/2015 |
| | | | | Depth | 1 m | 1 m | 1 m | 1 m | 1 m | 1 m |
| | | | | Sample Type | N | N | N | N | N | N |
| | | | | Matrix | WO | WO | WO | WO | WO | WO |
| | | | | X | -118.46222 | -118.38833 | -118.47361 | -118.48083 | -118.25167 | -118.41139 |
| | | | | Y | 33.90806 | 33.80583 | 33.81056 | 33.75722 | 33.87306 | 33.93611 |
| | | | | California Toxics Rule Saltwater Continuous Concentration | | | | | | |
| | | | | Criteria for Protection of Human Health | | | | | | |
| Method | | | | | | | | | | |
| PCB-194 | SW8270CSIM | -- | -- | 0.00040 U | 0.00040 U | 0.00040 U | 0.00040 U | 0.00040 U | 0.00040 U | 0.00040 U |
| PCB-195 | SW8270CSIM | -- | -- | 0.00034 U | 0.00034 U | 0.00034 U | 0.00034 U | 0.00034 U | 0.00034 U | 0.00034 U |
| PCB-201 | SW8270CSIM | -- | -- | 0.00069 U | 0.00069 U | 0.00069 U | 0.00069 U | 0.00069 U | 0.00069 U | 0.00070 U |
| PCB-206 | SW8270CSIM | -- | -- | 0.00024 U | 0.00024 U | 0.00024 U | 0.00024 U | 0.00024 U | 0.00024 U | 0.00025 U |
| Total PCB congener - low resolution (U = 0) | -- | 0.03 | 0.00017 | 0.00055 U | 0.00055 U | 0.00055 U | 0.00055 U | 0.00055 U | 0.00055 U | 0.00055 U |

Table 14
Winter 2015 Water Quality Chemistry Results

| FINAL VALIDATED DATA | | | | Task | GWMA_2015_WntrWet | GWMA_2015_WntrWet | GWMA_2015_WntrWet | GWMA_2015_WntrWet | GWMA_2015_WntrWet | GWMA_2015_WntrWet |
|---------------------------------------|---------|--------|---------|---|-----------------------|-----------------------|-----------------------|-----------------------|-------------------------|---------------------------|
| | | | | Area | Outer Harbor - LB | San Pedro Bay | San Pedro Bay | San Pedro Bay | San Pedro Bay | Los Angeles River Estuary |
| | | | | Location ID | OB-RW-17_201502 | SP-RW-18_201502 | SP-RW-19_201502 | SP-RW-20_201502 | SP-RW-20_201502 | LE-RW-21_201502 |
| | | | | Sample ID | OB-RW-17-G-S-20150224 | SP-RW-18-G-S-20150224 | SP-RW-19-G-S-20150224 | SP-RW-20-G-S-20150224 | SP-RW-1020-G-M-20150224 | LE-RW-21-G-S-20150224 |
| | | | | Sample Date | 02/24/2015 | 02/24/2015 | 02/24/2015 | 02/24/2015 | 02/24/2015 | 02/24/2015 |
| | | | | Depth | 0.5 m | 0.5 m | 0 m | 0.5 m | 7.5 m | 0 m |
| | | | | Sample Type | N | N | N | N | FD | N |
| | | | | Matrix | WO | WO | WO | WO | WO | WO |
| | | | | X | -118.18606 | -118.18133 | -118.13159 | -118.15733 | -118.15733 | -118.10739 |
| | | | | Y | 33.72754 | 33.75383 | 33.73667 | 33.72548 | 33.72548 | 33.75644 |
| | | | | Method | | | | | | |
| | | | | California Toxics Rule Saltwater Continuous Concentration | | | | | | |
| | | | | Criteria for Protection of Human Health | | | | | | |
| Conventional Parameters (mg/L) | | | | | | | | | | |
| Total suspended solids (surface) | SM2540D | -- | -- | 0.95 U | 2.7 | 0.95 U | 0.95 U | 0.95 U | -- | 9.1 |
| Total suspended solids (middle)* | SM2540D | -- | -- | 0.95 U | 0.95 U | 0.95 U | 0.95 U | 0.95 U | 0.95 U | -- |
| Total suspended solids (bottom)* | SM2540D | -- | -- | 0.95 U | 12 | 0.95 U | 3.1 | -- | -- | -- |
| Metals (µg/L) | | | | | | | | | | |
| Cadmium | E1640 | -- | -- | 0.0506 | 0.0647 | 0.0445 | 0.0455 | -- | -- | 0.0707 |
| Chromium | E1640 | -- | -- | 0.273 J | 0.407 J | 0.261 J | 0.277 J | -- | -- | 0.455 J |
| Copper | E1640 | -- | -- | 1.34 | 2.54 | 0.782 | 1.11 | -- | -- | 3.21 |
| Lead | E1640 | -- | -- | 0.659 | 1.64 | 0.772 | 0.360 | -- | -- | 1.35 |
| Mercury | E1631E | -- | -- | 0.0106 J | 0.0156 J | 0.00603 J | 0.0364 J | -- | -- | 0.00893 J |
| Zinc | E1640 | -- | -- | 5.40 | 8.64 | 2.52 | 4.10 | -- | -- | 11.1 |
| Metals, Dissolved (µg/L) | | | | | | | | | | |
| Cadmium | E1640 | 9.3 | -- | 0.0537 | 0.0479 | 0.0514 | 0.0481 | -- | -- | 0.0535 |
| Chromium | E1640 | 50 | -- | 0.213 J | 0.187 J | 0.216 J | 0.196 J | -- | -- | 0.251 J |
| Copper | E1640 | 3.1 | -- | 1.04 | 1.08 | 0.558 | 0.777 | -- | -- | 1.74 |
| Lead | E1640 | 8.1 | -- | 0.201 | 0.203 | 0.438 | 0.108 | -- | -- | 0.209 |
| Mercury | E1631E | 0.94 | 0.051 | 0.00267 | 0.0043 | 0.00216 | 0.00402 | -- | -- | 0.00323 |
| Zinc | E1640 | 81 | -- | 4.51 | 5.56 | 1.92 | 3.44 | -- | -- | 7.13 |
| Pesticides (µg/L) | | | | | | | | | | |
| 2,4'-DDD (o,p'-DDD) | SW8081A | -- | -- | 0.00061 U | 0.00056 U | 0.00058 U | 0.00058 U | -- | -- | 0.00057 U |
| 2,4'-DDE (o,p'-DDE) | SW8081A | -- | -- | 0.00051 U | 0.00047 U | 0.00049 U | 0.00048 U | -- | -- | 0.00048 U |
| 2,4'-DDT (o,p'-DDT) | SW8081A | -- | -- | 0.00072 U | 0.00066 U | 0.00069 U | 0.00068 U | -- | -- | 0.00067 U |
| 4,4'-DDD (p,p'-DDD) | SW8081A | -- | -- | 0.00058 U | 0.00053 U | 0.00055 U | 0.00054 U | -- | -- | 0.00054 U |
| 4,4'-DDE (p,p'-DDE) | SW8081A | -- | -- | 0.00050 U | 0.00046 U | 0.00048 U | 0.00047 U | -- | -- | 0.00047 U |
| 4,4'-DDT (p,p'-DDT) | SW8081A | 0.001 | 0.00059 | 0.00058 U | 0.00053 U | 0.00055 U | 0.00055 U | -- | -- | 0.00054 U |
| Chlordane, alpha- (Chlordane, cis-) | SW8081A | -- | -- | 0.00052 U | 0.00047 U | 0.00049 U | 0.00049 U | -- | -- | 0.00048 U |
| Chlordane, beta- (Chlordane, trans-) | SW8081A | -- | -- | 0.00051 U | 0.00047 U | 0.00049 U | 0.00048 U | -- | -- | 0.00048 U |
| Dieldrin | SW8081A | 0.0019 | 0.00014 | 0.00058 U | 0.00053 U | 0.00055 U | 0.00054 U | -- | -- | 0.00054 U |
| Nonachlor, cis- | SW8081A | -- | -- | 0.00053 U | 0.00048 U | 0.00050 U | 0.00050 U | -- | -- | 0.00049 U |
| Nonachlor, trans- | SW8081A | -- | -- | 0.00059 U | 0.00054 U | 0.00056 U | 0.00055 U | -- | -- | 0.00055 U |
| Oxychlordane | SW8081A | -- | -- | 0.00066 U | 0.00060 U | 0.00063 U | 0.00062 U | -- | -- | 0.00061 U |
| Toxaphene | SW8081A | 0.0002 | -- | 0.00087 U | 0.00079 U | 0.00082 U | 0.00082 U | -- | -- | 0.00081 U |
| Total chlordane (U = 0) | | 0.004 | 0.00059 | 0.00033 U | 0.00030 U | 0.00032 U | 0.00031 U | -- | -- | 0.00031 U |
| Total DDx (U = 0) | | 0.001 | 0.00059 | 0.00036 U | 0.00033 U | 0.00035 U | 0.00034 U | -- | -- | 0.00034 U |

Table 14
Winter 2015 Water Quality Chemistry Results

| FINAL VALIDATED DATA | | | | Task | GWMA_2015_WntrWet | GWMA_2015_WntrWet | GWMA_2015_WntrWet | GWMA_2015_WntrWet | GWMA_2015_WntrWet | GWMA_2015_WntrWet |
|--|------------|----|----|---|-----------------------|-----------------------|-----------------------|-----------------------|-------------------------|---------------------------|
| | | | | Area | Outer Harbor - LB | San Pedro Bay | San Pedro Bay | San Pedro Bay | San Pedro Bay | Los Angeles River Estuary |
| | | | | Location ID | OB-RW-17_201502 | SP-RW-18_201502 | SP-RW-19_201502 | SP-RW-20_201502 | SP-RW-20_201502 | LE-RW-21_201502 |
| | | | | Sample ID | OB-RW-17-G-S-20150224 | SP-RW-18-G-S-20150224 | SP-RW-19-G-S-20150224 | SP-RW-20-G-S-20150224 | SP-RW-1020-G-M-20150224 | LE-RW-21-G-S-20150224 |
| | | | | Sample Date | 02/24/2015 | 02/24/2015 | 02/24/2015 | 02/24/2015 | 02/24/2015 | 02/24/2015 |
| | | | | Depth | 0.5 m | 0.5 m | 0 m | 0.5 m | 7.5 m | 0 m |
| | | | | Sample Type | N | N | N | N | FD | N |
| | | | | Matrix | WO | WO | WO | WO | WO | WO |
| | | | | X | -118.18606 | -118.18133 | -118.13159 | -118.15733 | -118.15733 | -118.10739 |
| | | | | Y | 33.72754 | 33.75383 | 33.73667 | 33.72548 | 33.72548 | 33.75644 |
| | | | | Method | | | | | | |
| | | | | California Toxics Rule Saltwater Continuous Concentration | | | | | | |
| | | | | Criteria for Protection of Human Health | | | | | | |
| PCB Congeners - Low resolution (µg/L) | | | | | | | | | | |
| PCB-018 | SW8270CSIM | -- | -- | 0.00041 U | 0.00042 U | 0.00040 U | 0.00042 U | -- | 0.00040 U | |
| PCB-028 | SW8270CSIM | -- | -- | 0.00065 U | 0.00066 U | 0.00064 U | 0.00066 U | -- | 0.00064 U | |
| PCB-037 | SW8270CSIM | -- | -- | 0.00047 U | 0.00048 U | 0.00046 U | 0.00048 U | -- | 0.00046 U | |
| PCB-044 | SW8270CSIM | -- | -- | 0.00076 U | 0.00078 U | 0.00076 U | 0.00078 U | -- | 0.00076 U | |
| PCB-049 | SW8270CSIM | -- | -- | 0.00077 U | 0.00078 U | 0.00076 U | 0.00078 U | -- | 0.00076 U | |
| PCB-052 | SW8270CSIM | -- | -- | 0.00050 U | 0.00051 U | 0.00050 U | 0.00051 U | -- | 0.00050 U | |
| PCB-066 | SW8270CSIM | -- | -- | 0.00056 U | 0.00057 U | 0.00056 U | 0.00057 U | -- | 0.00056 U | |
| PCB-070 | SW8270CSIM | -- | -- | 0.00037 U | 0.00038 U | 0.00037 U | 0.00038 U | -- | 0.00037 U | |
| PCB-074 | SW8270CSIM | -- | -- | 0.00042 U | 0.00043 U | 0.00042 U | 0.00043 U | -- | 0.00042 U | |
| PCB-077 | SW8270CSIM | -- | -- | 0.00064 U | 0.00065 U | 0.00063 U | 0.00065 U | -- | 0.00063 U | |
| PCB-081 | SW8270CSIM | -- | -- | 0.00047 U | 0.00048 U | 0.00047 U | 0.00048 U | -- | 0.00047 U | |
| PCB-087 | SW8270CSIM | -- | -- | 0.00049 U | 0.00050 U | 0.00048 U | 0.00050 U | -- | 0.00048 U | |
| PCB-099 | SW8270CSIM | -- | -- | 0.00059 U | 0.00060 U | 0.00059 U | 0.00060 U | -- | 0.00059 U | |
| PCB-101 | SW8270CSIM | -- | -- | 0.00057 U | 0.00058 U | 0.00056 U | 0.00058 U | -- | 0.00056 U | |
| PCB-105 | SW8270CSIM | -- | -- | 0.00037 U | 0.00038 U | 0.00037 U | 0.00038 U | -- | 0.00037 U | |
| PCB-110 | SW8270CSIM | -- | -- | 0.00049 U | 0.00050 U | 0.00049 U | 0.00050 U | -- | 0.00049 U | |
| PCB-114 | SW8270CSIM | -- | -- | 0.00043 U | 0.00044 U | 0.00043 U | 0.00044 U | -- | 0.00043 U | |
| PCB-118 | SW8270CSIM | -- | -- | 0.00048 U | 0.00049 U | 0.00048 U | 0.00049 U | -- | 0.00048 U | |
| PCB-119 | SW8270CSIM | -- | -- | 0.00042 U | 0.00043 U | 0.00042 U | 0.00043 U | -- | 0.00042 U | |
| PCB-123 | SW8270CSIM | -- | -- | 0.00075 U | 0.00077 U | 0.00074 U | 0.00077 U | -- | 0.00074 U | |
| PCB-126 | SW8270CSIM | -- | -- | 0.00053 U | 0.00055 U | 0.00053 U | 0.00055 U | -- | 0.00053 U | |
| PCB-128 | SW8270CSIM | -- | -- | 0.00069 U | 0.00070 U | 0.00068 U | 0.00070 U | -- | 0.00068 U | |
| PCB-132/153 | SW8270CSIM | -- | -- | 0.0012 U | 0.0012 U | 0.0011 U | 0.0012 U | -- | 0.0011 U | |
| PCB-138/158 | SW8270CSIM | -- | -- | 0.0011 U | 0.0011 U | 0.0011 U | 0.0011 U | -- | 0.0011 U | |
| PCB-149 | SW8270CSIM | -- | -- | 0.00050 U | 0.00050 U | 0.00049 U | 0.00050 U | -- | 0.00049 U | |
| PCB-151 | SW8270CSIM | -- | -- | 0.00060 U | 0.00061 U | 0.00059 U | 0.00061 U | -- | 0.00059 U | |
| PCB-156 | SW8270CSIM | -- | -- | 0.00050 U | 0.00051 U | 0.00050 U | 0.00051 U | -- | 0.00050 U | |
| PCB-157 | SW8270CSIM | -- | -- | 0.00074 U | 0.00075 U | 0.00073 U | 0.00075 U | -- | 0.00073 U | |
| PCB-167 | SW8270CSIM | -- | -- | 0.00085 U | 0.00087 U | 0.00084 U | 0.00087 U | -- | 0.00084 U | |
| PCB-168 | SW8270CSIM | -- | -- | 0.00032 U | 0.00033 U | 0.00032 U | 0.00033 U | -- | 0.00032 U | |
| PCB-169 | SW8270CSIM | -- | -- | 0.00055 U | 0.00056 U | 0.00055 U | 0.00056 U | -- | 0.00055 U | |
| PCB-170 | SW8270CSIM | -- | -- | 0.00055 U | 0.00056 U | 0.00055 U | 0.00056 U | -- | 0.00055 U | |
| PCB-177 | SW8270CSIM | -- | -- | 0.00056 U | 0.00057 U | 0.00055 U | 0.00057 U | -- | 0.00055 U | |
| PCB-180 | SW8270CSIM | -- | -- | 0.00070 U | 0.00072 U | 0.00070 U | 0.00072 U | -- | 0.00070 U | |
| PCB-183 | SW8270CSIM | -- | -- | 0.00052 U | 0.00053 U | 0.00052 U | 0.00053 U | -- | 0.00052 U | |
| PCB-187 | SW8270CSIM | -- | -- | 0.00055 U | 0.00056 U | 0.00054 U | 0.00056 U | -- | 0.00054 U | |
| PCB-189 | SW8270CSIM | -- | -- | 0.00039 U | 0.00040 U | 0.00039 U | 0.00040 U | -- | 0.00039 U | |

Table 14
Winter 2015 Water Quality Chemistry Results

| FINAL VALIDATED DATA | | | | Task | GWMA_2015_WntrWet | GWMA_2015_WntrWet | GWMA_2015_WntrWet | GWMA_2015_WntrWet | GWMA_2015_WntrWet | GWMA_2015_WntrWet |
|---|------------|------|---------|-------------|---|---|-----------------------|-----------------------|-------------------------|---------------------------|
| | | | | Area | Outer Harbor - LB | San Pedro Bay | San Pedro Bay | San Pedro Bay | San Pedro Bay | Los Angeles River Estuary |
| | | | | Location ID | OB-RW-17_201502 | SP-RW-18_201502 | SP-RW-19_201502 | SP-RW-20_201502 | SP-RW-20_201502 | LE-RW-21_201502 |
| | | | | Sample ID | OB-RW-17-G-S-20150224 | SP-RW-18-G-S-20150224 | SP-RW-19-G-S-20150224 | SP-RW-20-G-S-20150224 | SP-RW-1020-G-M-20150224 | LE-RW-21-G-S-20150224 |
| | | | | Sample Date | 02/24/2015 | 02/24/2015 | 02/24/2015 | 02/24/2015 | 02/24/2015 | 02/24/2015 |
| | | | | Depth | 0.5 m | 0.5 m | 0 m | 0.5 m | 7.5 m | 0 m |
| | | | | Sample Type | N | N | N | N | FD | N |
| | | | | Matrix | WO | WO | WO | WO | WO | WO |
| | | | | X | -118.18606 | -118.18133 | -118.13159 | -118.15733 | -118.15733 | -118.10739 |
| | | | | Y | 33.72754 | 33.75383 | 33.73667 | 33.72548 | 33.72548 | 33.75644 |
| | | | | Method | California Toxics Rule Saltwater Continuous Concentration | Criteria for Protection of Human Health | | | | |
| PCB-194 | SW8270CSIM | -- | -- | 0.00041 U | 0.00042 U | 0.00041 U | 0.00042 U | -- | 0.00041 U | |
| PCB-195 | SW8270CSIM | -- | -- | 0.00035 U | 0.00035 U | 0.00034 U | 0.00035 U | -- | 0.00034 U | |
| PCB-201 | SW8270CSIM | -- | -- | 0.00071 U | 0.00072 U | 0.00070 U | 0.00072 U | -- | 0.00070 U | |
| PCB-206 | SW8270CSIM | -- | -- | 0.00025 U | 0.00026 U | 0.00025 U | 0.00026 U | -- | 0.00025 U | |
| Total PCB congener - low resolution (U = 0) | -- | 0.03 | 0.00017 | 0.00060 U | 0.00060 U | 0.00055 U | 0.00060 U | -- | 0.00055 U | |

Table 14
Winter 2015 Water Quality Chemistry Results

| FINAL VALIDATED DATA | | | | Task | GWMA_2015_WntrWet | GWMA_2015_WntrWet | GWMA_2015_WntrWet | Number analyzed | WQ Exceedances | Percentage of Exceedance |
|---------------------------------------|---|---|---------|-------------|---------------------------|---------------------------|---------------------------|-----------------|----------------|--------------------------|
| | | | | Area | Los Angeles River Estuary | Los Angeles River Estuary | Los Angeles River Estuary | | | |
| | | | | Location ID | LE-RW-21_201502 | LE-RW-22_201502 | LE-RW-22_201502 | | | |
| | | | | Sample ID | LE-RW-1021-G-S-20150224 | LE-RW-22-G-S-20150224 | LE-RW-1022-G-S-20150224 | | | |
| | | | | Sample Date | 02/24/2015 | 02/24/2015 | 02/24/2015 | | | |
| | | | | Depth | 0 m | 0 m | 0.5 m | | | |
| | | | | Sample Type | FD | N | FD | | | |
| | | | | Matrix | WO | WO | WO | | | |
| | | | | X | -118.10739 | -118.20211 | -118.20211 | | | |
| | | | | Y | 33.75644 | 33.76101 | 33.76101 | | | |
| Method | California Toxics Rule Saltwater Continuous Concentration | Criteria for Protection of Human Health | | | | | | | | |
| Conventional Parameters (mg/L) | | | | | | | | | | |
| Total suspended solids (surface) | SM2540D | -- | -- | 0.95 U | 9.6 | 5.9 | 24 | -- | -- | |
| Total suspended solids (middle)* | SM2540D | -- | -- | 0.95 U | 8.5 | 7.9 | 24 | -- | -- | |
| Total suspended solids (bottom)* | SM2540D | -- | -- | 0.95 U | 6.7 | 12 | 23 | -- | -- | |
| Metals (µg/L) | | | | | | | | | | |
| Cadmium | E1640 | -- | -- | 0.0776 | 0.0635 | 0.0661 | 24 | -- | -- | |
| Chromium | E1640 | -- | -- | 0.546 | 0.451 J | 0.422 J | 24 | -- | -- | |
| Copper | E1640 | -- | -- | 3.47 | 2.58 | 3.31 | 24 | -- | -- | |
| Lead | E1640 | -- | -- | 1.85 | 1.46 | 0.966 | 24 | -- | -- | |
| Mercury | E1631E | -- | -- | 0.00928 J | 0.0114 J | 0.00991 J | 24 | -- | -- | |
| Zinc | E1640 | -- | -- | 11.4 | 9.07 | 9.90 | 24 | -- | -- | |
| Metals, Dissolved (µg/L) | | | | | | | | | | |
| Cadmium | E1640 | 9.3 | -- | 0.0506 | 0.0427 | 0.0522 | 24 | 0 | 0% | |
| Chromium | E1640 | 50 | -- | 0.206 J | 0.164 U | 0.237 J | 24 | 0 | 0% | |
| Copper | E1640 | 3.1 | -- | 1.24 | 0.735 | 1.78 | 24 | 3 | 13% | |
| Lead | E1640 | 8.1 | -- | 0.216 | 0.154 | 0.194 | 24 | 0 | 0% | |
| Mercury | E1631E | 0.94 | 0.051 | 0.00572 | 0.00430 | 0.00203 | 24 | 0 | 0% | |
| Zinc | E1640 | 81 | -- | 5.93 | 4.24 | 7.43 | 24 | 0 | 0% | |
| Pesticides (µg/L) | | | | | | | | | | |
| 2,4'-DDD (o,p'-DDD) | SW8081A | -- | -- | 0.00058 U | 0.00056 U | 0.00056 U | 24 | -- | -- | |
| 2,4'-DDE (o,p'-DDE) | SW8081A | -- | -- | 0.00049 U | 0.00047 U | 0.00047 U | 24 | -- | -- | |
| 2,4'-DDT (o,p'-DDT) | SW8081A | -- | -- | 0.00069 U | 0.00066 U | 0.00066 U | 24 | -- | -- | |
| 4,4'-DDD (p,p'-DDD) | SW8081A | -- | -- | 0.00055 U | 0.00053 U | 0.00053 U | 24 | -- | -- | |
| 4,4'-DDE (p,p'-DDE) | SW8081A | -- | -- | 0.00048 U | 0.00046 U | 0.00046 U | 24 | -- | -- | |
| 4,4'-DDT (p,p'-DDT) | SW8081A | 0.001 | 0.00059 | 0.00055 U | 0.00053 U | 0.00053 U | 24 | 0 | 0% | |
| Chlordane, alpha- (Chlordane, cis-) | SW8081A | -- | -- | 0.00049 U | 0.00047 U | 0.00047 U | 24 | -- | -- | |
| Chlordane, beta- (Chlordane, trans-) | SW8081A | -- | -- | 0.00049 U | 0.00047 U | 0.00047 U | 24 | -- | -- | |
| Dieldrin | SW8081A | 0.0019 | 0.00014 | 0.00055 U | 0.00053 U | 0.00053 U | 24 | 24 | 100% | |
| Nonachlor, cis- | SW8081A | -- | -- | 0.00050 U | 0.00048 U | 0.00048 U | 24 | -- | -- | |
| Nonachlor, trans- | SW8081A | -- | -- | 0.00056 U | 0.00054 U | 0.00054 U | 24 | -- | -- | |
| Oxychlordane | SW8081A | -- | -- | 0.00063 U | 0.00060 U | 0.00060 U | 24 | -- | -- | |
| Toxaphene | SW8081A | 0.0002 | -- | 0.0082 U | 0.0079 U | 0.0079 U | 24 | 24 | 100% | |
| Total chlordane (U = 0) | | 0.004 | 0.00059 | 0.00032 U | 0.00030 U | 0.00030 U | 24 | 0 | 0% | |
| Total DDx (U = 0) | | 0.001 | 0.00059 | 0.00035 U | 0.00033 U | 0.00033 U | 24 | 0 | 0% | |

Table 14
Winter 2015 Water Quality Chemistry Results

| FINAL VALIDATED DATA | | | | Task | GWMA_2015_WntrWet | GWMA_2015_WntrWet | GWMA_2015_WntrWet | | | |
|--|------------|----|----|---|---------------------------|---------------------------|---------------------------|-----------------|----------------|--------------------------|
| | | | | Area | Los Angeles River Estuary | Los Angeles River Estuary | Los Angeles River Estuary | | | |
| | | | | Location ID | LE-RW-21_201502 | LE-RW-22_201502 | LE-RW-22_201502 | | | |
| | | | | Sample ID | LE-RW-1021-G-S-20150224 | LE-RW-22-G-S-20150224 | LE-RW-1022-G-S-20150224 | | | |
| | | | | Sample Date | 02/24/2015 | 02/24/2015 | 02/24/2015 | | | |
| | | | | Depth | 0 m | 0 m | 0.5 m | | | |
| | | | | Sample Type | FD | N | FD | | | |
| | | | | Matrix | WO | WO | WO | | | |
| | | | | X | -118.10739 | -118.20211 | -118.20211 | | | |
| | | | | Y | 33.75644 | 33.76101 | 33.76101 | | | |
| | | | | California Toxics Rule Saltwater Continuous Concentration | | | | Number analyzed | WQ Exceedances | Percentage of Exceedance |
| | | | | Criteria for Protection of Human Health | | | | | | |
| | | | | Method | | | | | | |
| PCB Congeners - Low resolution (µg/L) | | | | | | | | | | |
| PCB-018 | SW8270CSIM | -- | -- | 0.00041 U | 0.00040 U | 0.00040 U | 24 | -- | -- | |
| PCB-028 | SW8270CSIM | -- | -- | 0.00065 U | 0.00064 U | 0.00064 U | 24 | -- | -- | |
| PCB-037 | SW8270CSIM | -- | -- | 0.00047 U | 0.00046 U | 0.00046 U | 24 | -- | -- | |
| PCB-044 | SW8270CSIM | -- | -- | 0.00076 U | 0.00075 U | 0.00075 U | 24 | -- | -- | |
| PCB-049 | SW8270CSIM | -- | -- | 0.00077 U | 0.00075 U | 0.00075 U | 24 | -- | -- | |
| PCB-052 | SW8270CSIM | -- | -- | 0.00050 U | 0.00049 U | 0.00049 U | 24 | -- | -- | |
| PCB-066 | SW8270CSIM | -- | -- | 0.00056 U | 0.00055 U | 0.00055 U | 24 | -- | -- | |
| PCB-070 | SW8270CSIM | -- | -- | 0.00037 U | 0.00037 U | 0.00037 U | 24 | -- | -- | |
| PCB-074 | SW8270CSIM | -- | -- | 0.00042 U | 0.00041 U | 0.00041 U | 24 | -- | -- | |
| PCB-077 | SW8270CSIM | -- | -- | 0.00064 U | 0.00063 U | 0.00063 U | 24 | -- | -- | |
| PCB-081 | SW8270CSIM | -- | -- | 0.00047 U | 0.00047 U | 0.00047 U | 24 | -- | -- | |
| PCB-087 | SW8270CSIM | -- | -- | 0.00049 U | 0.00048 U | 0.00048 U | 24 | -- | -- | |
| PCB-099 | SW8270CSIM | -- | -- | 0.00059 U | 0.00058 U | 0.00058 U | 24 | -- | -- | |
| PCB-101 | SW8270CSIM | -- | -- | 0.00057 U | 0.00056 U | 0.00056 U | 24 | -- | -- | |
| PCB-105 | SW8270CSIM | -- | -- | 0.00037 U | 0.00036 U | 0.00036 U | 24 | -- | -- | |
| PCB-110 | SW8270CSIM | -- | -- | 0.00049 U | 0.00048 U | 0.00048 U | 24 | -- | -- | |
| PCB-114 | SW8270CSIM | -- | -- | 0.00043 U | 0.00042 U | 0.00042 U | 24 | -- | -- | |
| PCB-118 | SW8270CSIM | -- | -- | 0.00048 U | 0.00047 U | 0.00047 U | 24 | -- | -- | |
| PCB-119 | SW8270CSIM | -- | -- | 0.00042 U | 0.00041 U | 0.00041 U | 24 | -- | -- | |
| PCB-123 | SW8270CSIM | -- | -- | 0.00075 U | 0.00074 U | 0.00074 U | 24 | -- | -- | |
| PCB-126 | SW8270CSIM | -- | -- | 0.00053 U | 0.00052 U | 0.00052 U | 24 | -- | -- | |
| PCB-128 | SW8270CSIM | -- | -- | 0.00069 U | 0.00068 U | 0.00068 U | 24 | -- | -- | |
| PCB-132/153 | SW8270CSIM | -- | -- | 0.0012 U | 0.0011 U | 0.0011 U | 24 | -- | -- | |
| PCB-138/158 | SW8270CSIM | -- | -- | 0.0011 U | 0.0011 U | 0.0011 U | 24 | -- | -- | |
| PCB-149 | SW8270CSIM | -- | -- | 0.00050 U | 0.00049 U | 0.00049 U | 24 | -- | -- | |
| PCB-151 | SW8270CSIM | -- | -- | 0.00060 U | 0.00059 U | 0.00059 U | 24 | -- | -- | |
| PCB-156 | SW8270CSIM | -- | -- | 0.00050 U | 0.00049 U | 0.00049 U | 24 | -- | -- | |
| PCB-157 | SW8270CSIM | -- | -- | 0.00074 U | 0.00072 U | 0.00072 U | 24 | -- | -- | |
| PCB-167 | SW8270CSIM | -- | -- | 0.00085 U | 0.00083 U | 0.00083 U | 24 | -- | -- | |
| PCB-168 | SW8270CSIM | -- | -- | 0.00032 U | 0.00032 U | 0.00032 U | 24 | -- | -- | |
| PCB-169 | SW8270CSIM | -- | -- | 0.00055 U | 0.00054 U | 0.00054 U | 24 | -- | -- | |
| PCB-170 | SW8270CSIM | -- | -- | 0.00055 U | 0.00054 U | 0.00054 U | 24 | -- | -- | |
| PCB-177 | SW8270CSIM | -- | -- | 0.00056 U | 0.00055 U | 0.00055 U | 24 | -- | -- | |
| PCB-180 | SW8270CSIM | -- | -- | 0.00070 U | 0.00069 U | 0.00069 U | 24 | -- | -- | |
| PCB-183 | SW8270CSIM | -- | -- | 0.00052 U | 0.00051 U | 0.00051 U | 24 | -- | -- | |
| PCB-187 | SW8270CSIM | -- | -- | 0.00055 U | 0.00054 U | 0.00054 U | 24 | -- | -- | |
| PCB-189 | SW8270CSIM | -- | -- | 0.00039 U | 0.00038 U | 0.00038 U | 24 | -- | -- | |

Table 14
Winter 2015 Water Quality Chemistry Results

| FINAL VALIDATED DATA | | | | Task | GWMA_2015_WntrWet | GWMA_2015_WntrWet | GWMA_2015_WntrWet | | | |
|---|---|---|---------|-----------------|---------------------------|---------------------------|---------------------------|----|------|--|
| | | | | Area | Los Angeles River Estuary | Los Angeles River Estuary | Los Angeles River Estuary | | | |
| | | | | Location ID | LE-RW-21_201502 | LE-RW-22_201502 | LE-RW-22_201502 | | | |
| | | | | Sample ID | LE-RW-1021-G-S-20150224 | LE-RW-22-G-S-20150224 | LE-RW-1022-G-S-20150224 | | | |
| | | | | Sample Date | 02/24/2015 | 02/24/2015 | 02/24/2015 | | | |
| | | | | Depth | 0 m | 0 m | 0.5 m | | | |
| | | | | Sample Type | FD | N | FD | | | |
| | | | | Matrix | WO | WO | WO | | | |
| | | | | X | -118.10739 | -118.20211 | -118.20211 | | | |
| | | | | Y | 33.75644 | 33.76101 | 33.76101 | | | |
| Method | California Toxics Rule Saltwater Continuous Concentration | Criteria for Protection of Human Health | | Number analyzed | WQ Exceedances | Percentage of Exceedance | | | | |
| PCB-194 | SW8270CSIM | -- | -- | 0.00041 U | 0.00040 U | 0.00040 U | 24 | -- | -- | |
| PCB-195 | SW8270CSIM | -- | -- | 0.00035 U | 0.00034 U | 0.00034 U | 24 | -- | -- | |
| PCB-201 | SW8270CSIM | -- | -- | 0.00071 U | 0.00070 U | 0.00070 U | 24 | -- | -- | |
| PCB-206 | SW8270CSIM | -- | -- | 0.00025 U | 0.00025 U | 0.00025 U | 24 | -- | -- | |
| Total PCB congener - low resolution (U = 0) | -- | 0.03 | 0.00017 | 0.00060 U | 0.00055 U | 0.00055 U | 24 | 24 | 100% | |

Table 14
Winter 2015 Water Quality Chemistry Results

Notes:

*The total suspended solid results for samples collected from mid-depth and bottom depth are respectively labelled as "-M-" and "-B-" preceding the sample ID date. They are not direct results of the surface sample IDs indicated in the column headers in this spreadsheet.

Horizontal coordinate datum is NAD 1983 State Plane California V FIPS 0405 (US Survey Feet).

All undetect results are reported at the method detection limit.


Totals (U=0) are calculated as the sum of all detected results. If all results are not detected, half of the highest reporting limit value is reported as the sum.


Total chlordane is the sum of alpha-chlordane, beta-chlordane, gamma-chlordane, cis-nonachlor, trans-nonachlor, and oxychlordane.

Total DDx is the sum of 4,4'-DDD, 4,4'-DDE, 4,4'-DDT, 2,4'-DDD, 2,4'-DDE, and 2,4'-DDT, if measured.

Total PCB congeners is the sum of all PCB congeners listed in this table.

USEPA Stage 2A data validation was completed by Anchor QEA.

 Detected concentration is greater than California Toxics Rule Saltwater Continuous Concentration screening level

 Detected concentration is greater than the Criteria for Protection of Human Health

Italics = Non-detected concentration is above one or more identified screening levels

Bold = detected result

-- = results not reported or not applicable

ug/L = micrograms per liter

FD = field duplicate

J = estimated value

m = meters

mg/L = milligrams per liter

N = normal environmental sample

NAD = North American Datum

PCB = polychlorinated biphenyls

U = compound analyzed, but not detected above detection limit

USEPA = U.S. Environmental Protection Agency

WO = ocean water matrix

WQ = water quality

Table 15
Summer 2015 Water Quality Field Data

| Station ID | Sample ID | Latitude | Longitude | Date | Time | Depth (m) | DO | pH | Salinity (ppt) | Temperature (°C) | Sample Collected (Y/N) | Description of Sample | | | |
|------------|-----------------------|----------|------------|----------|-------|-----------|------------------|-----|----------------|------------------|------------------------|-----------------------|------|-------|-------|
| | | | | | | | | | | | | Floating Material | Odor | Sheen | Color |
| CS-RW-01 | CS-RW-01-G-S-20150707 | 33.77485 | -118.24525 | 7/7/2015 | 9:55 | 1.0 | 7.4 | 7.9 | 30.4 | 19.4 | Y | None | None | None | None |
| CS-RW-01 | CS-RW-01-G-M-20150707 | 33.77485 | -118.24525 | 7/7/2015 | 10:10 | 3.0 | 7.2 | 8.0 | 30.9 | 17.8 | Y | None | None | None | None |
| CS-RW-01 | CS-RW-01-G-B-20150707 | 33.77485 | -118.24525 | 7/7/2015 | 10:15 | 5.0 | 7.1 | 8.0 | 31.1 | 17.0 | Y | None | None | None | None |
| IA-RW-02 | IA-RW-02-G-S-20150707 | 33.76291 | -118.25475 | 7/7/2015 | 10:30 | 1.0 | 7.9 | 8.1 | 31.1 | 18.1 | Y | None | None | None | None |
| IA-RW-02 | IA-RW-02-G-M-20150707 | 33.76291 | -118.25475 | 7/7/2015 | 10:35 | 8.5 | 8.0 | 8.1 | 31.2 | 16.8 | Y | None | None | None | None |
| IA-RW-02 | IA-RW-02-G-B-20150707 | 33.76291 | -118.25475 | 7/7/2015 | 10:40 | 16.0 | 7.8 | 8.1 | 31.3 | 15.4 | Y | None | None | None | None |
| IA-RW-03 | IA-RW-03-G-S-20150707 | 33.76237 | -118.27403 | 7/7/2015 | 11:22 | 1.0 | 5.0 ¹ | 8.1 | 32.2 | 19.5 | Y | None | None | None | None |
| IA-RW-03 | IA-RW-03-G-M-20150707 | 33.76237 | -118.27403 | 7/7/2015 | 11:27 | 8.5 | 5.1 ¹ | 8.1 | 32.3 | 16.7 | Y | None | None | None | None |
| IA-RW-03 | IA-RW-03-G-B-20150707 | 33.76237 | -118.27403 | 7/7/2015 | 11:30 | 16.0 | 4.4 ¹ | 8.1 | 32.2 | 16.0 | Y | None | None | None | None |
| IA-RW-04 | IA-RW-04-G-S-20150707 | 33.75218 | -118.27103 | 7/7/2015 | 12:00 | 1.0 | 4.4 ¹ | 8.1 | 32.2 | 18.1 | Y | None | None | None | None |
| IA-RW-04 | IA-RW-04-G-M-20150707 | 33.75218 | -118.27103 | 7/7/2015 | 12:10 | 9.5 | 4.4 ¹ | 8.1 | 32.2 | 17.2 | Y | None | None | None | None |
| IA-RW-04 | IA-RW-04-G-B-20150707 | 33.75218 | -118.27103 | 7/7/2015 | 12:15 | 19.0 | 4.1 ¹ | 8.1 | 32.3 | 16.0 | Y | None | None | None | None |
| IA-RW-05 | IA-RW-05-G-S-20150707 | 33.73262 | -118.25117 | 7/7/2015 | 15:17 | 1.0 | 3.3 ¹ | 8.2 | 32.3 | 18.5 | Y | None | None | None | None |
| IA-RW-05 | IA-RW-05-G-M-20150707 | 33.73262 | -118.25117 | 7/7/2015 | 15:25 | 9.0 | 3.4 ¹ | 8.2 | 32.1 | 15.9 | Y | None | None | None | None |
| IA-RW-05 | IA-RW-05-G-B-20150707 | 33.73262 | -118.25117 | 7/7/2015 | 15:30 | 17.0 | 3.2 ¹ | 8.2 | 32.2 | 14.8 | Y | None | None | None | None |
| IA-RW-06 | IA-RW-06-G-S-20150707 | 33.72571 | -118.27144 | 7/7/2015 | 14:15 | 1.0 | 4.5 ¹ | 8.2 | 32.3 | 17.2 | Y | None | None | None | None |
| IA-RW-06 | IA-RW-06-G-M-20150707 | 33.72571 | -118.27144 | 7/7/2015 | 14:20 | 9.0 | 4.0 ¹ | 8.2 | 32.3 | 16.2 | Y | None | None | None | None |
| IA-RW-06 | IA-RW-06-G-B-20150707 | 33.72571 | -118.27144 | 7/7/2015 | 14:25 | 18.0 | 3.0 ¹ | 8.1 | 32.1 | 15.0 | Y | None | None | None | None |
| FH-RW-07 | FH-RW-07-G-S-20150707 | 33.73592 | -118.26725 | 7/7/2015 | 14:50 | 1.0 | 3.9 ¹ | 8.1 | 32.3 | 18.7 | Y | None | None | None | None |
| FH-RW-07 | FH-RW-07-G-M-20150707 | 33.73592 | -118.26725 | 7/7/2015 | 14:58 | 2.5 | 3.5 ¹ | 8.1 | 32.3 | 17.9 | Y | None | None | None | None |
| FH-RW-07 | FH-RW-07-G-B-20150707 | 33.73592 | -118.26725 | 7/7/2015 | 15:05 | 7.0 | 3.2 ¹ | 8.1 | 32.3 | 16.4 | Y | None | None | None | None |
| OA-RW-08 | OA-RW-08-G-S-20150707 | 33.71490 | -118.24294 | 7/7/2015 | 14:20 | 1.0 | 8.6 | 8.2 | 34.7 | 17.2 | Y | None | None | None | None |
| OA-RW-08 | OA-RW-08-G-M-20150707 | 33.71490 | -118.24294 | 7/7/2015 | 14:20 | 12.8 | 8.1 | 8.1 | 36.3 | 15.5 | Y | None | None | None | None |
| OA-RW-08 | OA-RW-08-G-B-20150707 | 33.71490 | -118.24294 | 7/7/2015 | 14:20 | 24.5 | 7.4 | 7.9 | 38.8 | 13.1 | Y | None | None | None | None |
| OA-RW-09 | OA-RW-09-G-S-20150707 | 33.71318 | -118.26647 | 7/7/2015 | 12:14 | 1.0 | 8.5 | 8.1 | 35.5 | 16.3 | Y | None | None | None | None |
| OA-RW-09 | OA-RW-09-G-M-20150707 | 33.71318 | -118.26647 | 7/7/2015 | 12:16 | 7.2 | 8.2 | 8.1 | 36.5 | 15.3 | Y | None | None | None | None |
| OA-RW-09 | OA-RW-09-G-B-20150707 | 33.71318 | -118.26647 | 7/7/2015 | 12:18 | 15.4 | 7.8 | 8.1 | 37.1 | 14.6 | Y | None | None | None | None |
| CM-RW-10 | CM-RW-10-G-S-20150707 | 33.71928 | -118.27930 | 7/7/2015 | 13:40 | 1.0 | 11.0 | 8.1 | 34.2 | 17.9 | Y | None | None | None | None |
| CM-RW-10 | CM-RW-10-G-M-20150707 | 33.71928 | -118.27930 | 7/7/2015 | 13:43 | 5.4 | 8.1 | 8.1 | 36.2 | 15.6 | Y | None | None | None | None |
| CM-RW-10 | CM-RW-10-G-B-20150707 | 33.71928 | -118.27930 | 7/7/2015 | 13:44 | 9.8 | 7.6 | 8.0 | 36.7 | 15.1 | Y | None | None | None | None |
| CB-RW-11 | CB-RW-11-G-S-20150707 | 33.71229 | -118.27779 | 7/7/2015 | 12:52 | 1.0 | 8.5 | 8.1 | 34.8 | 17.1 | Y | None | None | None | None |
| CB-RW-11 | CB-RW-11-G-M-20150707 | 33.71229 | -118.27779 | 7/7/2015 | 12:53 | 2.7 | 8.7 | 8.1 | 35.6 | 16.3 | Y | None | None | None | None |
| CB-RW-11 | CB-RW-11-G-B-20150707 | 33.71229 | -118.27779 | 7/7/2015 | 12:53 | 5.4 | 7.9 | 8.1 | 36.1 | 15.7 | Y | None | None | None | None |
| IB-RW-12 | IB-RW-12-G-S-20150707 | 33.76909 | -118.22678 | 7/7/2015 | 9:30 | 1.0 | 7.9 | 8.0 | 34.5 | 17.5 | Y | None | None | None | None |
| IB-RW-12 | IB-RW-12-G-M-20150707 | 33.76909 | -118.22678 | 7/7/2015 | 9:30 | 9.0 | 7.9 | 8.0 | 35.0 | 16.8 | Y | None | None | None | None |
| IB-RW-12 | IB-RW-12-G-B-20150707 | 33.76909 | -118.22678 | 7/7/2015 | 9:30 | 17.0 | 7.6 | 8.0 | 35.9 | 15.9 | Y | None | None | None | None |
| IB-RW-13 | IB-RW-13-G-S-20150707 | 33.75345 | -118.21632 | 7/7/2015 | 10:35 | 1.0 | 7.2 | 8.0 | 34.5 | 17.4 | Y | None | None | None | None |
| IB-RW-13 | IB-RW-13-G-M-20150707 | 33.75345 | -118.21632 | 7/7/2015 | 10:35 | 12.0 | 7.8 | 8.1 | 36.1 | 15.7 | Y | None | None | None | None |
| IB-RW-13 | IB-RW-13-G-B-20150707 | 33.75345 | -118.21632 | 7/7/2015 | 10:35 | 23.0 | 7.7 | 8.1 | 37.2 | 14.6 | Y | None | None | None | None |

Table 15
Summer 2015 Water Quality Field Data

| Station ID | Sample ID | Latitude | Longitude | Date | Time | Depth (m) | DO | pH | Salinity (ppt) | Temperature (°C) | Sample Collected (Y/N) | Description of Sample | | | |
|------------|-----------------------|----------|------------|----------|-------|-----------|-----|-----|----------------|------------------|------------------------|-----------------------|------|-------|--------|
| | | | | | | | | | | | | Floating Material | Odor | Sheen | Color |
| IB-RW-14 | IB-RW-14-G-S-20150707 | 33.74899 | -118.23231 | 7/7/2015 | 11:16 | 1.0 | 8.7 | 8.1 | 34.1 | 17.9 | Y | None | None | None | None |
| IB-RW-14 | IB-RW-14-G-M-20150707 | 33.74899 | -118.23231 | 7/7/2015 | 11:21 | 7.6 | 8.7 | 8.1 | 35.8 | 16.0 | Y | None | None | None | None |
| IB-RW-14 | IB-RW-14-G-B-20150707 | 33.74899 | -118.23231 | 7/7/2015 | 11:21 | 14.3 | 8.6 | 8.1 | 36.4 | 15.4 | Y | None | None | None | None |
| IB-RW-15 | IB-RW-15-G-S-20150707 | 33.74163 | -118.20335 | 7/7/2015 | 15:15 | 1.0 | 8.6 | 8.1 | 34.3 | 17.7 | Y | None | None | None | None |
| IB-RW-15 | IB-RW-15-G-M-20150707 | 33.74163 | -118.20335 | 7/7/2015 | 15:15 | 10.9 | 8.6 | 8.1 | 34.3 | 17.7 | Y | None | None | None | None |
| IB-RW-15 | IB-RW-15-G-B-20150707 | 33.74163 | -118.20335 | 7/7/2015 | 15:15 | 20.8 | 8.6 | 8.0 | 34.3 | 17.7 | Y | None | None | None | None |
| OB-RW-16 | OB-RW-16-G-S-20150707 | 33.72949 | -118.22827 | 7/7/2015 | 14:46 | 1.0 | 8.9 | 8.1 | 34.3 | 17.8 | Y | None | None | None | None |
| OB-RW-16 | OB-RW-16-G-M-20150707 | 33.72949 | -118.22827 | 7/7/2015 | 14:46 | 9.1 | 8.2 | 8.0 | 36.0 | 15.8 | Y | None | None | None | None |
| OB-RW-16 | OB-RW-16-G-B-20150707 | 33.72949 | -118.22827 | 7/7/2015 | 14:46 | 17.2 | 7.2 | 7.9 | 36.0 | 14.8 | Y | None | None | None | None |
| OB-RW-17 | OB-RW-17-G-S-20150707 | 33.72739 | -118.18606 | 7/7/2015 | 10:20 | 0.0 | 8.4 | 7.8 | 33.0 | 17.0 | Y | None | None | None | None |
| OB-RW-17 | OB-RW-17-G-M-20150707 | 33.72739 | -118.18606 | 7/7/2015 | 10:22 | 11.0 | 8.0 | 7.8 | 33.1 | 18.1 | Y | None | None | None | None |
| OB-RW-17 | OB-RW-17-G-B-20150707 | 33.72739 | -118.18606 | 7/7/2015 | 10:22 | 22.0 | 8.1 | 7.8 | 33.1 | 18.8 | Y | None | None | None | None |
| SP-RW-18 | SP-RW-18-G-S-20150707 | 33.75383 | -118.18133 | 7/7/2015 | 9:20 | 0.0 | 7.1 | 7.8 | 30.3 | 18.4 | Y | None | None | None | None |
| SP-RW-18 | SP-RW-18-G-M-20150707 | 33.75383 | -118.18133 | 7/7/2015 | 9:20 | 5.0 | 8.5 | 7.8 | 32.7 | 17.9 | Y | None | None | None | None |
| SP-RW-18 | SP-RW-18-G-B-20150707 | 33.75383 | -118.18133 | 7/7/2015 | 9:20 | 11.0 | 7.5 | 7.8 | 33.0 | 16.1 | Y | None | None | None | None |
| SP-RW-19 | SP-RW-19-G-S-20150707 | 33.73667 | -118.13191 | 7/7/2015 | 11:50 | 0.0 | 8.2 | 7.8 | 32.8 | 19.1 | Y | None | None | None | None |
| SP-RW-19 | SP-RW-19-G-M-20150707 | 33.73667 | -118.13191 | 7/7/2015 | 11:50 | 4.5 | 8.4 | 7.8 | 33.0 | 17.1 | Y | None | None | None | None |
| SP-RW-19 | SP-RW-19-G-B-20150707 | 33.73667 | -118.13191 | 7/7/2015 | 11:50 | 8.9 | 8.4 | 7.8 | 33.1 | 14.7 | Y | None | None | None | None |
| SP-RW-20 | SP-RW-20-G-S-20150707 | 33.72548 | -118.15733 | 7/7/2015 | 11:10 | 0.0 | 8.3 | 7.8 | 33.1 | 17.3 | Y | None | None | None | None |
| SP-RW-20 | SP-RW-20-G-M-20150707 | 33.72548 | -118.15733 | 7/7/2015 | 11:10 | 7.0 | 8.2 | 7.8 | 33.1 | 16.0 | Y | None | None | None | None |
| SP-RW-20 | SP-RW-20-G-B-20150707 | 33.72548 | -118.15733 | 7/7/2015 | 11:10 | 15.0 | 8.0 | 7.8 | 33.1 | 14.8 | Y | None | None | None | None |
| LE-RW-21 | LE-RW-21-G-S-20150707 | 33.75644 | -118.19339 | 7/7/2015 | 8:55 | 0.2 | 5.4 | 7.6 | 25.2 | 19.3 | Y | None | None | None | Cloudy |
| LE-RW-21 | LE-RW-21-G-M-20150707 | 33.75644 | -118.19339 | 7/7/2015 | 8:55 | 0.5 | 6.0 | 7.7 | 29.2 | 18.6 | Y | None | None | None | Cloudy |
| LE-RW-21 | LE-RW-21-G-B-20150707 | 33.75644 | -118.19339 | 7/7/2015 | 8:55 | 1.0 | 5.1 | 7.7 | 31.7 | 17.8 | Y | None | None | None | Cloudy |
| LE-RW-22 | LE-RW-22-G-S-20150707 | 33.76101 | -118.20211 | 7/7/2015 | 8:20 | 0.5 | 3.3 | 7.9 | 32.6 | 19.4 | Y | None | None | None | Cloudy |
| LE-RW-22 | LE-RW-22-G-M-20150707 | 33.76101 | -118.20211 | 7/7/2015 | 8:20 | 2.0 | 3.4 | 7.6 | 27.5 | 18.7 | Y | None | None | None | Cloudy |
| LE-RW-22 | LE-RW-22-G-B-20150707 | 33.76101 | -118.20211 | 7/7/2015 | 8:20 | 3.5 | 5.2 | 7.6 | 34.4 | 17.2 | Y | None | None | None | Cloudy |

Notes:

DO = dissolved oxygen

m = meter

ppt = parts per thousand

Notes:

¹ DO reading was determined biased low

Table 16
Summer 2015 Water Quality Chemistry Results

| FINAL VALIDATED DATA | | | | Task | GWMA_2015_SmrDry | GWMA_2015_SmrDry | GWMA_2015_SmrDry | GWMA_2015_SmrDry | GWMA_2015_SmrDry | GWMA_2015_SmrDry |
|---------------------------------------|---------|--------|---------|-------------|---|--|-------------------------|-----------------------|-----------------------|-----------------------|
| | | | | Location ID | Consolidated Slip | Inner Harbor - LA | Inner Harbor - LA | Inner Harbor - LA | Inner Harbor - LA | Inner Harbor - LA |
| | | | | Location ID | CS-RW-01_201507 | IA-RW-02_201507 | IA-RW-02_201507 | IA-RW-03_201507 | IA-RW-04_201507 | IA-RW-05_201507 |
| | | | | Sample ID | CS-RW-01-G-S-20150707 | IA-RW-02-G-S-20150707 | IA-RW-1002-G-S-20150707 | IA-RW-03-G-S-20150707 | IA-RW-04-G-S-20150707 | IA-RW-05-G-S-20150707 |
| | | | | Sample Date | 7/7/2015 | 7/7/2015 | 7/7/2015 | 7/7/2015 | 7/7/2015 | 7/7/2015 |
| | | | | depth_unit | 1 m | 1 m | 1 m | 1 m | 1 m | 1 m |
| | | | | Sample Type | N | N | FD | N | N | N |
| | | | | Matrix | WO | WO | WO | WO | WO | WO |
| | | | | X | -118.24525 | -118.25475 | -118.25475 | -118.27403 | -118.27103 | -118.25117 |
| | | | | Y | 33.77485 | 33.76291 | 33.76291 | 33.76237 | 33.75218 | 33.73262 |
| | | | | Method | California Toxics Rule Saltwater Continuous Concentration | Criteria for Protection of Human Health | | | | |
| Conventional Parameters (mg/L) | | | | | | | | | | |
| Total suspended solids (surface) | SM2540D | -- | -- | 1.2 | 0.83 U | 0.83 U | 1.1 | 0.83 U | 0.83 U | |
| Total suspended solids (middle)* | SM2540D | -- | -- | 6.4 | 1.2 | -- | 0.83 U | 3.7 | 0.83 U | |
| Total suspended solids (bottom)* | SM2540D | -- | -- | 5.3 | 3.5 | -- | 0.83 U | 3.3 | 0.83 U | |
| Metals (µg/L) | | | | | | | | | | |
| Cadmium | E1640 | -- | -- | 0.0474 | 0.0363 | 0.0287 J | 0.0244 J | 0.0229 J | 0.0180 J | |
| Chromium | E1640 | -- | -- | 0.612 | 0.504 | 0.451 J | 0.392 J | 0.476 J | 0.439 J | |
| Copper | E1640 | -- | -- | 4.46 | 2.70 | 2.32 | 1.94 | 2.15 | 1.34 | |
| Lead | E1640 | -- | -- | 0.459 | 0.236 | 0.173 | 0.0913 | 0.463 | 0.0804 | |
| Mercury | E1631E | -- | -- | 0.000968 | 0.00104 | 0.00148 | 0.000828 | 0.00168 | 0.00130 | |
| Zinc | E1640 | -- | -- | 14.2 | 8.16 | 6.76 | 5.01 | 4.35 | 3.45 | |
| Metals, Dissolved (µg/L) | | | | | | | | | | |
| Cadmium | E1640 | 9.3 | -- | 0.0352 | 0.0314 | 0.0230 J | 0.0264 J | 0.0214 J | 0.017 J | |
| Chromium | E1640 | 50 | -- | 0.362 J | 0.318 J | 0.318 J | 0.309 J | 0.297 J | 0.310 J | |
| Copper | E1640 | 3.1 | -- | 3.02 | 0.129 | 1.37 | 0.910 | 1.20 | 0.761 | |
| Lead | E1640 | 8.1 | -- | 0.0723 | 0.036 | 0.0149 J | 0.031 | 0.0135 U | 0.0135 U | |
| Mercury | E1631E | 0.94 | 0.051 | 0.000441 J | 0.000596 | 0.000113 U | 0.000266 J | 0.000854 | 0.00046 J | |
| Zinc | E1640 | 81 | -- | 15.0 | 0.459 J | 4.37 | 1.32 | 0.943 | 1.28 | |
| Pesticides (µg/L) | | | | | | | | | | |
| 2,4'-DDD (o,p'-DDD) | SW8081A | -- | -- | 0.00058 U | 0.00058 U | 0.00058 U | 0.00058 U | 0.00058 U | 0.00058 U | |
| 2,4'-DDE (o,p'-DDE) | SW8081A | -- | -- | 0.00049 U | 0.00049 U | 0.00049 U | 0.00049 U | 0.00049 U | 0.00049 U | |
| 2,4'-DDT (o,p'-DDT) | SW8081A | -- | -- | 0.00069 U | 0.00069 U | 0.00069 U | 0.00069 U | 0.00069 U | 0.00069 U | |
| 4,4'-DDD (p,p'-DDD) | SW8081A | -- | -- | 0.00055 U | 0.00055 U | 0.00055 U | 0.00055 U | 0.00055 U | 0.00055 U | |
| 4,4'-DDE (p,p'-DDE) | SW8081A | -- | -- | 0.00048 U | 0.00048 U | 0.00048 U | 0.00048 U | 0.00048 U | 0.00048 U | |
| 4,4'-DDT (p,p'-DDT) | SW8081A | 0.001 | 0.00059 | 0.00055 U | 0.00055 U | 0.00055 U | 0.00055 U | 0.00055 U | 0.00055 U | |
| Chlordane, alpha- (Chlordane, cis-) | SW8081A | -- | -- | 0.00049 U | 0.00049 U | 0.00049 U | 0.00049 U | 0.00049 U | 0.00049 U | |
| Chlordane, beta- (Chlordane, trans-) | SW8081A | -- | -- | 0.00049 U | 0.00049 U | 0.00049 U | 0.00049 U | 0.00049 U | 0.00049 U | |
| Dieldrin | SW8081A | 0.0019 | 0.00014 | 0.00055 U | 0.00055 U | 0.00055 U | 0.00055 U | 0.00055 U | 0.00055 U | |
| Nonachlor, cis- | SW8081A | -- | -- | 0.00050 U | 0.00050 U | 0.00050 U | 0.00050 U | 0.00050 U | 0.00050 U | |
| Nonachlor, trans- | SW8081A | -- | -- | 0.00056 U | 0.00056 U | 0.00056 U | 0.00056 U | 0.00056 U | 0.00056 U | |
| Oxychlordane | SW8081A | -- | -- | 0.00063 U | 0.00063 U | 0.00063 U | 0.00063 U | 0.00063 U | 0.00063 U | |
| Toxaphene | SW8081A | 0.0002 | -- | 0.0082 U | 0.0082 U | 0.0082 U | 0.0082 U | 0.0082 U | 0.0082 U | |
| Total chlordane (U = 0) | -- | 0.004 | 0.00059 | 0.00032 U | 0.00032 U | 0.00032 U | 0.00032 U | 0.00032 U | 0.00032 U | |
| Total DDx (U = 0) | -- | 0.001 | 0.00059 | 0.00035 U | 0.00035 U | 0.00035 U | 0.00035 U | 0.00035 U | 0.00035 U | |

Table 16
Summer 2015 Water Quality Chemistry Results

| FINAL VALIDATED DATA | | | | Task | GWMA_2015_SmrDry | GWMA_2015_SmrDry | GWMA_2015_SmrDry | GWMA_2015_SmrDry | GWMA_2015_SmrDry | GWMA_2015_SmrDry |
|--|------------|----|----|---|-----------------------|-----------------------|-------------------------|-----------------------|-----------------------|-----------------------|
| | | | | Location ID | Consolidated Slip | Inner Harbor - LA | Inner Harbor - LA | Inner Harbor - LA | Inner Harbor - LA | Inner Harbor - LA |
| | | | | Location ID | CS-RW-01_201507 | IA-RW-02_201507 | IA-RW-02_201507 | IA-RW-03_201507 | IA-RW-04_201507 | IA-RW-05_201507 |
| | | | | Sample ID | CS-RW-01-G-S-20150707 | IA-RW-02-G-S-20150707 | IA-RW-1002-G-S-20150707 | IA-RW-03-G-S-20150707 | IA-RW-04-G-S-20150707 | IA-RW-05-G-S-20150707 |
| | | | | Sample Date | 7/7/2015 | 7/7/2015 | 7/7/2015 | 7/7/2015 | 7/7/2015 | 7/7/2015 |
| | | | | depth_unit | 1 m | 1 m | 1 m | 1 m | 1 m | 1 m |
| | | | | Sample Type | N | N | FD | N | N | N |
| | | | | Matrix | WO | WO | WO | WO | WO | WO |
| | | | | X | -118.24525 | -118.25475 | -118.25475 | -118.27403 | -118.27103 | -118.25117 |
| | | | | Y | 33.77485 | 33.76291 | 33.76291 | 33.76237 | 33.75218 | 33.73262 |
| | | | | Method | | | | | | |
| | | | | California Toxics Rule Saltwater Continuous Concentration | | | | | | |
| | | | | Criteria for Protection of Human Health | | | | | | |
| PCB Congeners - Low resolution (µg/L) | | | | | | | | | | |
| PCB-018 | SW8270CSIM | -- | -- | 0.00040 U | 0.00040 U | 0.00040 U | 0.00040 U | 0.00040 U | 0.00040 U | 0.00040 U |
| PCB-028 | SW8270CSIM | -- | -- | 0.00064 U | 0.00064 U | 0.00063 U | 0.00064 U | 0.00064 U | 0.00064 U | 0.00064 U |
| PCB-037 | SW8270CSIM | -- | -- | 0.00046 U | 0.00046 U | 0.00046 U | 0.00046 U | 0.00046 U | 0.00046 U | 0.00046 U |
| PCB-044 | SW8270CSIM | -- | -- | 0.00075 U | 0.00075 U | 0.00074 U | 0.00075 U | 0.00075 U | 0.00075 U | 0.00075 U |
| PCB-049 | SW8270CSIM | -- | -- | 0.00075 U | 0.00075 U | 0.00074 U | 0.00075 U | 0.00075 U | 0.00075 U | 0.00075 U |
| PCB-052 | SW8270CSIM | -- | -- | 0.00049 U | 0.00049 U | 0.00049 U | 0.00049 U | 0.00049 U | 0.00049 U | 0.00049 U |
| PCB-066 | SW8270CSIM | -- | -- | 0.00055 U | 0.00055 U | 0.00055 U | 0.00055 U | 0.00055 U | 0.00055 U | 0.00055 U |
| PCB-070 | SW8270CSIM | -- | -- | 0.00037 U | 0.00037 U | 0.00036 U | 0.00037 U | 0.00037 U | 0.00037 U | 0.00037 U |
| PCB-074 | SW8270CSIM | -- | -- | 0.00041 U | 0.00041 U | 0.00041 U | 0.00041 U | 0.00041 U | 0.00041 U | 0.00041 U |
| PCB-077 | SW8270CSIM | -- | -- | 0.00063 U | 0.00063 U | 0.00062 U | 0.00063 U | 0.00063 U | 0.00063 U | 0.00063 U |
| PCB-081 | SW8270CSIM | -- | -- | 0.00047 U | 0.00047 U | 0.00046 U | 0.00047 U | 0.00047 U | 0.00047 U | 0.00047 U |
| PCB-087 | SW8270CSIM | -- | -- | 0.00048 U | 0.00048 U | 0.00048 U | 0.00048 U | 0.00048 U | 0.00048 U | 0.00048 U |
| PCB-099 | SW8270CSIM | -- | -- | 0.00058 U | 0.00058 U | 0.00058 U | 0.00058 U | 0.00058 U | 0.00058 U | 0.00058 U |
| PCB-101 | SW8270CSIM | -- | -- | 0.00056 U | 0.00056 U | 0.00055 U | 0.00056 U | 0.00056 U | 0.00056 U | 0.00056 U |
| PCB-105 | SW8270CSIM | -- | -- | 0.00036 U | 0.00036 U | 0.00036 U | 0.00036 U | 0.00036 U | 0.00036 U | 0.00036 U |
| PCB-110 | SW8270CSIM | -- | -- | 0.00048 U | 0.00048 U | 0.00048 U | 0.00048 U | 0.00048 U | 0.00048 U | 0.00048 U |
| PCB-114 | SW8270CSIM | -- | -- | 0.00042 U | 0.00042 U | 0.00042 U | 0.00042 U | 0.00042 U | 0.00042 U | 0.00042 U |
| PCB-118 | SW8270CSIM | -- | -- | 0.00047 U | 0.00047 U | 0.00047 U | 0.00047 U | 0.00047 U | 0.00047 U | 0.00047 U |
| PCB-119 | SW8270CSIM | -- | -- | 0.00041 U | 0.00041 U | 0.00041 U | 0.00041 U | 0.00041 U | 0.00041 U | 0.00041 U |
| PCB-123 | SW8270CSIM | -- | -- | 0.00074 U | 0.00074 U | 0.00073 U | 0.00074 U | 0.00074 U | 0.00074 U | 0.00074 U |
| PCB-126 | SW8270CSIM | -- | -- | 0.00052 U | 0.00052 U | 0.00052 U | 0.00052 U | 0.00052 U | 0.00052 U | 0.00052 U |
| PCB-128 | SW8270CSIM | -- | -- | 0.00068 U | 0.00068 U | 0.00067 U | 0.00068 U | 0.00068 U | 0.00068 U | 0.00068 U |
| PCB-132/153 | SW8270CSIM | -- | -- | 0.0011 U | 0.0011 U | 0.0011 U | 0.0011 U | 0.0011 U | 0.0011 U | 0.0011 U |
| PCB-138/158 | SW8270CSIM | -- | -- | 0.0011 U | 0.0011 U | 0.0011 U | 0.0011 U | 0.0011 U | 0.0011 U | 0.0011 U |
| PCB-149 | SW8270CSIM | -- | -- | 0.00049 U | 0.00049 U | 0.00048 U | 0.00049 U | 0.00049 U | 0.00049 U | 0.00049 U |
| PCB-151 | SW8270CSIM | -- | -- | 0.00059 U | 0.00059 U | 0.00058 U | 0.00059 U | 0.00059 U | 0.00059 U | 0.00059 U |
| PCB-156 | SW8270CSIM | -- | -- | 0.00049 U | 0.00049 U | 0.00049 U | 0.00049 U | 0.00049 U | 0.00049 U | 0.00049 U |
| PCB-157 | SW8270CSIM | -- | -- | 0.00072 U | 0.00072 U | 0.00072 U | 0.00072 U | 0.00072 U | 0.00072 U | 0.00072 U |
| PCB-167 | SW8270CSIM | -- | -- | 0.00083 U | 0.00083 U | 0.00083 U | 0.00083 U | 0.00083 U | 0.00083 U | 0.00083 U |
| PCB-168 | SW8270CSIM | -- | -- | 0.00032 U | 0.00032 U | 0.00031 U | 0.00032 U | 0.00032 U | 0.00032 U | 0.00032 U |
| PCB-169 | SW8270CSIM | -- | -- | 0.00054 U | 0.00054 U | 0.00054 U | 0.00054 U | 0.00054 U | 0.00054 U | 0.00054 U |
| PCB-170 | SW8270CSIM | -- | -- | 0.00054 U | 0.00054 U | 0.00054 U | 0.00054 U | 0.00054 U | 0.00054 U | 0.00054 U |
| PCB-177 | SW8270CSIM | -- | -- | 0.00055 U | 0.00055 U | 0.00054 U | 0.00055 U | 0.00055 U | 0.00055 U | 0.00055 U |
| PCB-180 | SW8270CSIM | -- | -- | 0.00069 U | 0.00069 U | 0.00068 U | 0.00069 U | 0.00069 U | 0.00069 U | 0.00069 U |
| PCB-183 | SW8270CSIM | -- | -- | 0.00051 U | 0.00051 U | 0.00051 U | 0.00051 U | 0.00051 U | 0.00051 U | 0.00051 U |
| PCB-187 | SW8270CSIM | -- | -- | 0.00054 U | 0.00054 U | 0.00053 U | 0.00054 U | 0.00054 U | 0.00054 U | 0.00054 U |
| PCB-189 | SW8270CSIM | -- | -- | 0.00038 U | 0.00038 U | 0.00038 U | 0.00038 U | 0.00038 U | 0.00038 U | 0.00038 U |

Table 16
Summer 2015 Water Quality Chemistry Results

| FINAL VALIDATED DATA | | | | Task | GWMA_2015_SmrDry | GWMA_2015_SmrDry | GWMA_2015_SmrDry | GWMA_2015_SmrDry | GWMA_2015_SmrDry | GWMA_2015_SmrDry |
|---|---|--|---------|-------------|-----------------------|-----------------------|-------------------------|-----------------------|-----------------------|-----------------------|
| | | | | Location ID | Consolidated Slip | Inner Harbor - LA | Inner Harbor - LA | Inner Harbor - LA | Inner Harbor - LA | Inner Harbor - LA |
| | | | | Location ID | CS-RW-01_201507 | IA-RW-02_201507 | IA-RW-02_201507 | IA-RW-03_201507 | IA-RW-04_201507 | IA-RW-05_201507 |
| | | | | Sample ID | CS-RW-01-G-S-20150707 | IA-RW-02-G-S-20150707 | IA-RW-1002-G-S-20150707 | IA-RW-03-G-S-20150707 | IA-RW-04-G-S-20150707 | IA-RW-05-G-S-20150707 |
| | | | | Sample Date | 7/7/2015 | 7/7/2015 | 7/7/2015 | 7/7/2015 | 7/7/2015 | 7/7/2015 |
| | | | | depth_unit | 1 m | 1 m | 1 m | 1 m | 1 m | 1 m |
| | | | | Sample Type | N | N | FD | N | N | N |
| | | | | Matrix | WO | WO | WO | WO | WO | WO |
| | | | | X | -118.24525 | -118.25475 | -118.25475 | -118.27403 | -118.27103 | -118.25117 |
| | | | | Y | 33.77485 | 33.76291 | 33.76291 | 33.76237 | 33.75218 | 33.73262 |
| | | | | | | | | | | |
| Method | California Toxics Rule Saltwater Continuous Concentration | Criteria for Protection of Human Health | | | | | | | | |
| PCB-194 | SW8270CSIM | -- | -- | | 0.00040 U | 0.00040 U | 0.00040 U | 0.00040 U | 0.00040 U | 0.00040 U |
| PCB-195 | SW8270CSIM | -- | -- | | 0.00034 U | 0.00034 U | 0.00034 U | 0.00034 U | 0.00034 U | 0.00034 U |
| PCB-201 | SW8270CSIM | -- | -- | | 0.00070 U | 0.00070 U | 0.00069 U | 0.00070 U | 0.00070 U | 0.00070 U |
| PCB-206 | SW8270CSIM | -- | -- | | 0.00025 U | 0.00025 U | 0.00024 U | 0.00025 U | 0.00025 U | 0.00025 U |
| Total PCB congener - low resolution (U = 0) | -- | 0.03 | 0.00017 | | 0.00055 U | 0.00055 U | 0.00055 U | 0.00055 U | 0.00055 U | 0.00055 U |

Table 16
Summer 2015 Water Quality Chemistry Results

| FINAL VALIDATED DATA | | | | Task | GWMA_2015_SmrDry | GWMA_2015_SmrDry | GWMA_2015_SmrDry | GWMA_2015_SmrDry | GWMA_2015_SmrDry | GWMA_2015_SmrDry |
|---------------------------------------|---------|---|--|-------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| | | | | Location ID | Inner Harbor - LA | Fish Harbor | Outer Harbor - LA | Outer Harbor - LA | Cabrillo Marina | Cabrillo Beach |
| | | | | Location ID | IA-RW-06_201507 | FH-RW-07_201507 | OA-RW-08_201507 | OA-RW-09_201507 | CM-RW-10_201507 | CB-RW-11_201507 |
| | | | | Sample ID | IA-RW-06-G-S-20150707 | FH-RW-07-G-S-20150707 | OA-RW-08-G-S-20150707 | OA-RW-09-G-S-20150707 | CM-RW-10-G-S-20150707 | CB-RW-11-G-S-20150707 |
| | | | | Sample Date | 7/7/2015 | 7/7/2015 | 7/7/2015 | 7/7/2015 | 7/7/2015 | 7/7/2015 |
| | | | | depth_unit | 1 m | 1 m | 1 m | 1 m | 1 m | 1 m |
| | | | | Sample Type | N | N | N | N | N | N |
| | | | | Matrix | WO | WO | WO | WO | WO | WO |
| | | | | X | -118.27144 | -118.26725 | -118.24294 | -118.26647 | -118.2793 | -118.27779 |
| | | | | Y | 33.72571 | 33.73592 | 33.7149 | 33.71318 | 33.71928 | 33.71229 |
| | | | | | | | | | | |
| Method | | California Toxics Rule Saltwater Continuous Concentration | Criteria for Protection of Human Health | | | | | | | |
| Conventional Parameters (mg/L) | | | | | | | | | | |
| Total suspended solids (surface) | SM2540D | -- | -- | 1.2 | 1.5 | 1 | 0.83 U | 0.83 U | 1.1 | |
| Total suspended solids (middle)* | SM2540D | -- | -- | 0.83 U | 1.8 | 1.4 | 1 | 1.4 | 0.83 U | |
| Total suspended solids (bottom)* | SM2540D | -- | -- | 2.0 | 4.1 | 2.0 | 2.1 | 1.2 | 1.7 | |
| Metals (µg/L) | | | | | | | | | | |
| Cadmium | E1640 | -- | -- | 0.0217 J | 0.0309 | 0.0149 J | 0.0228 J | 0.0378 J | 0.0255 J | |
| Chromium | E1640 | -- | -- | 0.501 | 0.478 J | 0.489 J | 0.557 J | 0.536 J | 0.49 J | |
| Copper | E1640 | -- | -- | 1.62 | 5.09 | 0.821 | 1.27 | 12.1 | 2.21 | |
| Lead | E1640 | -- | -- | 0.188 | 0.269 | 0.180 | 0.124 | 0.0472 | 0.124 | |
| Mercury | E1631E | -- | -- | 0.00153 | 0.00382 | 0.000706 | 0.000663 | 0.000508 | 0.000807 | |
| Zinc | E1640 | -- | -- | 4.55 | 12.3 | 1.94 J | 3.17 J | 32.4 J | 5.95 J | |
| Metals, Dissolved (µg/L) | | | | | | | | | | |
| Cadmium | E1640 | 9.3 | -- | 0.0189 J | 0.0283 J | 0.0186 J | 0.0193 J | 0.0445 | 0.0204 J | |
| Chromium | E1640 | 50 | -- | 0.316 J | 0.277 J | 0.450 J | 0.437 J | 0.452 J | 0.457 J | |
| Copper | E1640 | 3.1 | -- | 0.854 | 2.64 | 0.0756 | 0.708 | 8.65 | 1.22 | |
| Lead | E1640 | 8.1 | -- | 0.0135 U | 0.0242 J | 0.0184 J | 0.0135 U | 0.031 | 0.0284 J | |
| Mercury | E1631E | 0.94 | 0.051 | 0.000301 J | 0.000794 | 0.000113 U | 0.000143 J | 0.000644 | 0.000113 U | |
| Zinc | E1640 | 81 | -- | 1.84 | 12.8 | 0.270 J | 2.39 | 20.7 | 3.69 | |
| Pesticides (µg/L) | | | | | | | | | | |
| 2,4'-DDD (o,p'-DDD) | SW8081A | -- | -- | 0.00058 U | 0.00058 U | 0.00058 U | 0.00058 U | 0.00058 U | 0.00058 U | |
| 2,4'-DDE (o,p'-DDE) | SW8081A | -- | -- | 0.00049 U | 0.00049 U | 0.00049 U | 0.00049 U | 0.00049 U | 0.00049 U | |
| 2,4'-DDT (o,p'-DDT) | SW8081A | -- | -- | 0.00069 U | 0.00069 U | 0.00069 U | 0.00069 U | 0.00069 U | 0.00069 U | |
| 4,4'-DDD (p,p'-DDD) | SW8081A | -- | -- | 0.00055 U | 0.00055 U | 0.00055 U | 0.00055 U | 0.00055 U | 0.00055 U | |
| 4,4'-DDE (p,p'-DDE) | SW8081A | -- | -- | 0.00048 U | 0.00048 U | 0.00048 U | 0.00048 U | 0.00048 U | 0.00048 U | |
| 4,4'-DDT (p,p'-DDT) | SW8081A | 0.001 | 0.00059 | 0.00055 U | 0.00055 U | 0.00055 U | 0.00055 U | 0.00055 U | 0.00055 U | |
| Chlordane, alpha- (Chlordane, cis-) | SW8081A | -- | -- | 0.00049 U | 0.00049 U | 0.00049 U | 0.00049 U | 0.00049 U | 0.00049 U | |
| Chlordane, beta- (Chlordane, trans-) | SW8081A | -- | -- | 0.00049 U | 0.00049 U | 0.00049 U | 0.00049 U | 0.00049 U | 0.00049 U | |
| Dieldrin | SW8081A | 0.0019 | 0.00014 | 0.00055 U | 0.00055 U | 0.00055 U | 0.00055 U | 0.00055 U | 0.00055 U | |
| Nonachlor, cis- | SW8081A | -- | -- | 0.00050 U | 0.00050 U | 0.00050 U | 0.00050 U | 0.00050 U | 0.00050 U | |
| Nonachlor, trans- | SW8081A | -- | -- | 0.00056 U | 0.00056 U | 0.00056 U | 0.00056 U | 0.00056 U | 0.00056 U | |
| Oxychlordane | SW8081A | -- | -- | 0.00063 U | 0.00063 U | 0.00063 U | 0.00063 U | 0.00063 U | 0.00063 U | |
| Toxaphene | SW8081A | 0.0002 | -- | 0.0082 U | 0.0082 U | 0.0082 U | 0.0082 U | 0.0082 U | 0.0082 U | |
| Total chlordane (U = 0) | -- | 0.004 | 0.00059 | 0.00032 U | 0.00032 U | 0.00032 U | 0.00032 U | 0.00032 U | 0.00032 U | |
| Total DDx (U = 0) | -- | 0.001 | 0.00059 | 0.00035 U | 0.00035 U | 0.00035 U | 0.00035 U | 0.00035 U | 0.00035 U | |

Table 16
Summer 2015 Water Quality Chemistry Results

| FINAL VALIDATED DATA | | | | Task | GWMA_2015_SmrDry | GWMA_2015_SmrDry | GWMA_2015_SmrDry | GWMA_2015_SmrDry | GWMA_2015_SmrDry | GWMA_2015_SmrDry |
|--|---|--|----|-------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| | | | | Location ID | Inner Harbor - LA | Fish Harbor | Outer Harbor - LA | Outer Harbor - LA | Cabrillo Marina | Cabrillo Beach |
| | | | | Location ID | IA-RW-06_201507 | FH-RW-07_201507 | OA-RW-08_201507 | OA-RW-09_201507 | CM-RW-10_201507 | CB-RW-11_201507 |
| | | | | Sample ID | IA-RW-06-G-S-20150707 | FH-RW-07-G-S-20150707 | OA-RW-08-G-S-20150707 | OA-RW-09-G-S-20150707 | CM-RW-10-G-S-20150707 | CB-RW-11-G-S-20150707 |
| | | | | Sample Date | 7/7/2015 | 7/7/2015 | 7/7/2015 | 7/7/2015 | 7/7/2015 | 7/7/2015 |
| | | | | depth_unit | 1 m | 1 m | 1 m | 1 m | 1 m | 1 m |
| | | | | Sample Type | N | N | N | N | N | N |
| | | | | Matrix | WO | WO | WO | WO | WO | WO |
| | | | | X | -118.27144 | -118.26725 | -118.24294 | -118.26647 | -118.2793 | -118.27779 |
| | | | | Y | 33.72571 | 33.73592 | 33.7149 | 33.71318 | 33.71928 | 33.71229 |
| | | | | | | | | | | |
| | | | | | | | | | | |
| Method | California Toxics Rule Saltwater Continuous Concentration | Criteria for Protection of Human Health | | | | | | | | |
| PCB Congeners - Low resolution (µg/L) | | | | | | | | | | |
| PCB-018 | SW8270CSIM | -- | -- | 0.00040 U | 0.00040 U | 0.00040 U | 0.00040 U | 0.00040 U | 0.00040 U | 0.00040 U |
| PCB-028 | SW8270CSIM | -- | -- | 0.00064 U | 0.00064 U | 0.00064 U | 0.00064 U | 0.00064 U | 0.00064 U | 0.00064 U |
| PCB-037 | SW8270CSIM | -- | -- | 0.00046 U | 0.00046 U | 0.00046 U | 0.00046 U | 0.00046 U | 0.00046 U | 0.00046 U |
| PCB-044 | SW8270CSIM | -- | -- | 0.00075 U | 0.00076 U | 0.00075 U | 0.00075 U | 0.00075 U | 0.00075 U | 0.00075 U |
| PCB-049 | SW8270CSIM | -- | -- | 0.00075 U | 0.00076 U | 0.00075 U | 0.00075 U | 0.00075 U | 0.00075 U | 0.00075 U |
| PCB-052 | SW8270CSIM | -- | -- | 0.00049 U | 0.00050 U | 0.00049 U | 0.00049 U | 0.00049 U | 0.00049 U | 0.00049 U |
| PCB-066 | SW8270CSIM | -- | -- | 0.00055 U | 0.00056 U | 0.00055 U | 0.00055 U | 0.00055 U | 0.00055 U | 0.00055 U |
| PCB-070 | SW8270CSIM | -- | -- | 0.00037 U | 0.00037 U | 0.00037 U | 0.00037 U | 0.00037 U | 0.00037 U | 0.00037 U |
| PCB-074 | SW8270CSIM | -- | -- | 0.00041 U | 0.00042 U | 0.00041 U | 0.00041 U | 0.00041 U | 0.00041 U | 0.00041 U |
| PCB-077 | SW8270CSIM | -- | -- | 0.00063 U | 0.00063 U | 0.00063 U | 0.00063 U | 0.00063 U | 0.00063 U | 0.00063 U |
| PCB-081 | SW8270CSIM | -- | -- | 0.00047 U | 0.00047 U | 0.00047 U | 0.00047 U | 0.00047 U | 0.00047 U | 0.00047 U |
| PCB-087 | SW8270CSIM | -- | -- | 0.00048 U | 0.00048 U | 0.00048 U | 0.00048 U | 0.00048 U | 0.00048 U | 0.00048 U |
| PCB-099 | SW8270CSIM | -- | -- | 0.00058 U | 0.00059 U | 0.00058 U | 0.00058 U | 0.00058 U | 0.00058 U | 0.00058 U |
| PCB-101 | SW8270CSIM | -- | -- | 0.00056 U | 0.00056 U | 0.00056 U | 0.00056 U | 0.00056 U | 0.00056 U | 0.00056 U |
| PCB-105 | SW8270CSIM | -- | -- | 0.00036 U | 0.00037 U | 0.00036 U | 0.00036 U | 0.00036 U | 0.00036 U | 0.00036 U |
| PCB-110 | SW8270CSIM | -- | -- | 0.00048 U | 0.00049 U | 0.00048 U | 0.00048 U | 0.00048 U | 0.00048 U | 0.00048 U |
| PCB-114 | SW8270CSIM | -- | -- | 0.00042 U | 0.00043 U | 0.00042 U | 0.00042 U | 0.00042 U | 0.00042 U | 0.00042 U |
| PCB-118 | SW8270CSIM | -- | -- | 0.00047 U | 0.00048 U | 0.00047 U | 0.00047 U | 0.00047 U | 0.00047 U | 0.00047 U |
| PCB-119 | SW8270CSIM | -- | -- | 0.00041 U | 0.00042 U | 0.00041 U | 0.00041 U | 0.00041 U | 0.00041 U | 0.00041 U |
| PCB-123 | SW8270CSIM | -- | -- | 0.00074 U | 0.00074 U | 0.00074 U | 0.00074 U | 0.00074 U | 0.00074 U | 0.00074 U |
| PCB-126 | SW8270CSIM | -- | -- | 0.00052 U | 0.00053 U | 0.00052 U | 0.00052 U | 0.00052 U | 0.00052 U | 0.00052 U |
| PCB-128 | SW8270CSIM | -- | -- | 0.00068 U | 0.00068 U | 0.00068 U | 0.00068 U | 0.00068 U | 0.00068 U | 0.00068 U |
| PCB-132/153 | SW8270CSIM | -- | -- | 0.0011 U | 0.0011 U | 0.0011 U | 0.0011 U | 0.0011 U | 0.0011 U | 0.0011 U |
| PCB-138/158 | SW8270CSIM | -- | -- | 0.0011 U | 0.0011 U | 0.0011 U | 0.0011 U | 0.0011 U | 0.0011 U | 0.0011 U |
| PCB-149 | SW8270CSIM | -- | -- | 0.00049 U | 0.00049 U | 0.00049 U | 0.00049 U | 0.00049 U | 0.00049 U | 0.00049 U |
| PCB-151 | SW8270CSIM | -- | -- | 0.00059 U | 0.00059 U | 0.00059 U | 0.00059 U | 0.00059 U | 0.00059 U | 0.00059 U |
| PCB-156 | SW8270CSIM | -- | -- | 0.00049 U | 0.00050 U | 0.00049 U | 0.00049 U | 0.00049 U | 0.00049 U | 0.00049 U |
| PCB-157 | SW8270CSIM | -- | -- | 0.00072 U | 0.00073 U | 0.00072 U | 0.00072 U | 0.00072 U | 0.00072 U | 0.00072 U |
| PCB-167 | SW8270CSIM | -- | -- | 0.00083 U | 0.00084 U | 0.00083 U | 0.00083 U | 0.00083 U | 0.00083 U | 0.00083 U |
| PCB-168 | SW8270CSIM | -- | -- | 0.00032 U | 0.00032 U | 0.00032 U | 0.00032 U | 0.00032 U | 0.00032 U | 0.00032 U |
| PCB-169 | SW8270CSIM | -- | -- | 0.00054 U | 0.00055 U | 0.00054 U | 0.00054 U | 0.00054 U | 0.00054 U | 0.00054 U |
| PCB-170 | SW8270CSIM | -- | -- | 0.00054 U | 0.00055 U | 0.00054 U | 0.00054 U | 0.00054 U | 0.00054 U | 0.00054 U |
| PCB-177 | SW8270CSIM | -- | -- | 0.00055 U | 0.00055 U | 0.00055 U | 0.00055 U | 0.00055 U | 0.00055 U | 0.00055 U |
| PCB-180 | SW8270CSIM | -- | -- | 0.00069 U | 0.00070 U | 0.00069 U | 0.00069 U | 0.00069 U | 0.00069 U | 0.00069 U |
| PCB-183 | SW8270CSIM | -- | -- | 0.00051 U | 0.00052 U | 0.00051 U | 0.00051 U | 0.00051 U | 0.00051 U | 0.00051 U |
| PCB-187 | SW8270CSIM | -- | -- | 0.00054 U | 0.00054 U | 0.00054 U | 0.00054 U | 0.00054 U | 0.00054 U | 0.00054 U |
| PCB-189 | SW8270CSIM | -- | -- | 0.00038 U | 0.00039 U | 0.00038 U | 0.00038 U | 0.00038 U | 0.00038 U | 0.00038 U |

**Table 16
Summer 2015 Water Quality Chemistry Results**

| FINAL VALIDATED DATA | | | | Task | GWMA_2015_SmrDry | GWMA_2015_SmrDry | GWMA_2015_SmrDry | GWMA_2015_SmrDry | GWMA_2015_SmrDry | GWMA_2015_SmrDry |
|---|---|--|---------|-------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| | | | | Location ID | Inner Harbor - LA | Fish Harbor | Outer Harbor - LA | Outer Harbor - LA | Cabrillo Marina | Cabrillo Beach |
| | | | | Location ID | IA-RW-06_201507 | FH-RW-07_201507 | OA-RW-08_201507 | OA-RW-09_201507 | CM-RW-10_201507 | CB-RW-11_201507 |
| | | | | Sample ID | IA-RW-06-G-S-20150707 | FH-RW-07-G-S-20150707 | OA-RW-08-G-S-20150707 | OA-RW-09-G-S-20150707 | CM-RW-10-G-S-20150707 | CB-RW-11-G-S-20150707 |
| | | | | Sample Date | 7/7/2015 | 7/7/2015 | 7/7/2015 | 7/7/2015 | 7/7/2015 | 7/7/2015 |
| | | | | depth_unit | 1 m | 1 m | 1 m | 1 m | 1 m | 1 m |
| | | | | Sample Type | N | N | N | N | N | N |
| | | | | Matrix | WO | WO | WO | WO | WO | WO |
| | | | | X | -118.27144 | -118.26725 | -118.24294 | -118.26647 | -118.2793 | -118.27779 |
| | | | | Y | 33.72571 | 33.73592 | 33.7149 | 33.71318 | 33.71928 | 33.71229 |
| | | | | | | | | | | |
| Method | California Toxics Rule Saltwater Continuous Concentration | Criteria for Protection of Human Health | | | | | | | | |
| PCB-194 | SW8270CSIM | -- | -- | | 0.00040 U | 0.00041 U | 0.00040 U | 0.00040 U | 0.00040 U | 0.00040 U |
| PCB-195 | SW8270CSIM | -- | -- | | 0.00034 U | 0.00034 U | 0.00034 U | 0.00034 U | 0.00034 U | 0.00034 U |
| PCB-201 | SW8270CSIM | -- | -- | | 0.00070 U | 0.00070 U | 0.00070 U | 0.00070 U | 0.00070 U | 0.00070 U |
| PCB-206 | SW8270CSIM | -- | -- | | 0.00025 U | 0.00025 U | 0.00025 U | 0.00025 U | 0.00025 U | 0.00025 U |
| Total PCB congener - low resolution (U = 0) | -- | 0.03 | 0.00017 | | 0.00055 U | 0.00055 U | 0.00055 U | 0.00055 U | 0.00055 U | 0.00055 U |

Table 16
Summer 2015 Water Quality Chemistry Results

| FINAL VALIDATED DATA | | | | Task | GWMA_2015_SmrDry | GWMA_2015_SmrDry | GWMA_2015_SmrDry | GWMA_2015_SmrDry | GWMA_2015_SmrDry | GWMA_2015_SmrDry |
|---------------------------------------|---------|--------|---------|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| | | | | Location ID | Inner Harbor - LB | Inner Harbor - LB | Inner Harbor - LB | Inner Harbor - LB | Outer Harbor - LB | Outer Harbor - LB |
| | | | | Location ID | IB-RW-12_201507 | IB-RW-13_201507 | IB-RW-14_201507 | IB-RW-15_201507 | OB-RW-16_201507 | OB-RW-17_201507 |
| | | | | Sample ID | IB-RW-12-G-S-20150707 | IB-RW-13-G-S-20150707 | IB-RW-14-G-S-20150707 | IB-RW-15-G-S-20150707 | OB-RW-16-G-S-20150707 | OB-RW-17-G-S-20150707 |
| | | | | Sample Date | 7/7/2015 | 7/7/2015 | 7/7/2015 | 7/7/2015 | 7/7/2015 | 7/7/2015 |
| | | | | depth_unit | 1 m | 1 m | 1 m | 1 m | 1 m | 0 m |
| | | | | Sample Type | N | N | N | N | N | N |
| | | | | Matrix | WO | WO | WO | WO | WO | WO |
| | | | | X | -118.22678 | -118.21632 | -118.23231 | -118.20335 | -118.22827 | -118.1860575 |
| | | | | Y | 33.76909 | 33.75345 | 33.74899 | 33.74163 | 33.72949 | 33.72739372 |
| | | | | Method | | | | | | |
| | | | | California Toxics Rule Saltwater Continuous Concentration | | | | | | |
| | | | | Criteria for Protection of Human Health | | | | | | |
| Conventional Parameters (mg/L) | | | | | | | | | | |
| Total suspended solids (surface) | SM2540D | -- | -- | | 0.83 U | 0.83 U | 0.83 U | 0.83 U | 0.83 U | 0.83 U |
| Total suspended solids (middle)* | SM2540D | -- | -- | | 1.2 | 2.4 | 0.83 U | 1.8 | 0.83 U | 0.83 U |
| Total suspended solids (bottom)* | SM2540D | -- | -- | | 1.6 | 3.7 | 0.83 U | 1.4 | 7.6 | 0.83 U |
| Metals (µg/L) | | | | | | | | | | |
| Cadmium | E1640 | -- | -- | | 0.0299 J | 0.0214 J | 0.0204 J | 0.0149 J | 0.0150 J | 0.0185 J |
| Chromium | E1640 | -- | -- | | 0.605 J | 0.510 J | 0.530 J | 0.356 J | 0.344 J | 0.385 J |
| Copper | E1640 | -- | -- | | 2.37 | 1.20 | 1.10 | 0.948 | 0.569 | 0.856 |
| Lead | E1640 | -- | -- | | 0.255 | 0.0776 | 0.0726 | 0.0603 | 0.0368 | 0.0716 |
| Mercury | E1631E | -- | -- | | 0.000113 U | 0.000591 | 0.000311 J | 0.000403 J | 0.000113 U | 0.000412 J |
| Zinc | E1640 | -- | -- | | 17.8 J | 3.97 J | 2.93 J | 1.97 J | 1.15 J | 3.01 |
| Metals, Dissolved (µg/L) | | | | | | | | | | |
| Cadmium | E1640 | 9.3 | -- | | 0.0211 J | 0.0177 J | 0.0178 J | 0.0190 J | 0.0175 J | 0.0167 J |
| Chromium | E1640 | 50 | -- | | 0.417 J | 0.439 J | 0.429 J | 0.475 J | 0.444 J | 0.367 J |
| Copper | E1640 | 3.1 | -- | | 1.46 | 0.629 | 0.732 | 0.658 | 0.0781 | 0.592 |
| Lead | E1640 | 8.1 | -- | | 0.0474 | 0.0278 J | 0.0185 J | 0.0188 J | 0.0150 J | 0.0181 J |
| Mercury | E1631E | 0.94 | 0.051 | | 0.000113 U | 0.000399 J | 0.000113 U | 0.00052 | 0.000253 J | 0.000113 U |
| Zinc | E1640 | 81 | -- | | 10.0 | 0.768 | 2.21 | 1.58 | 0.260 J | 1.88 |
| Pesticides (µg/L) | | | | | | | | | | |
| 2,4'-DDD (o,p'-DDD) | SW8081A | -- | -- | | 0.00058 U | 0.00058 U | 0.00058 U | 0.00058 U | 0.00058 U | 0.00057 U |
| 2,4'-DDE (o,p'-DDE) | SW8081A | -- | -- | | 0.00049 U | 0.00049 U | 0.00049 U | 0.00049 U | 0.00049 U | 0.00048 U |
| 2,4'-DDT (o,p'-DDT) | SW8081A | -- | -- | | 0.00069 U | 0.00069 U | 0.00069 U | 0.00069 U | 0.00069 U | 0.00067 U |
| 4,4'-DDD (p,p'-DDD) | SW8081A | -- | -- | | 0.00055 U | 0.00055 U | 0.00055 U | 0.00055 U | 0.00055 U | 0.00054 U |
| 4,4'-DDE (p,p'-DDE) | SW8081A | -- | -- | | 0.00048 U | 0.00048 U | 0.00048 U | 0.00048 U | 0.00048 U | 0.00047 U |
| 4,4'-DDT (p,p'-DDT) | SW8081A | 0.001 | 0.00059 | | 0.00055 U | 0.00055 U | 0.00055 U | 0.00055 U | 0.00055 U | 0.00054 U |
| Chlordane, alpha- (Chlordane, cis-) | SW8081A | -- | -- | | 0.00049 U | 0.00049 U | 0.00049 U | 0.00049 U | 0.00049 U | 0.00048 U |
| Chlordane, beta- (Chlordane, trans-) | SW8081A | -- | -- | | 0.00049 U | 0.00049 U | 0.00049 U | 0.00049 U | 0.00049 U | 0.00048 U |
| Dieldrin | SW8081A | 0.0019 | 0.00014 | | 0.00055 U | 0.00055 U | 0.00055 U | 0.00055 U | 0.00055 U | 0.00054 U |
| Nonachlor, cis- | SW8081A | -- | -- | | 0.00050 U | 0.00050 U | 0.00050 U | 0.00050 U | 0.00050 U | 0.00049 U |
| Nonachlor, trans- | SW8081A | -- | -- | | 0.00056 U | 0.00056 U | 0.00056 U | 0.00056 U | 0.00056 U | 0.00055 U |
| Oxychlordane | SW8081A | -- | -- | | 0.00063 U | 0.00063 U | 0.00063 U | 0.00063 U | 0.00063 U | 0.00061 U |
| Toxaphene | SW8081A | 0.0002 | -- | | 0.0082 U | 0.0082 U | 0.0082 U | 0.0082 U | 0.0082 U | 0.0081 U |
| Total chlordane (U = 0) | -- | 0.004 | 0.00059 | | 0.00032 U | 0.00032 U | 0.00032 U | 0.00032 U | 0.00032 U | 0.00031 U |
| Total DDx (U = 0) | -- | 0.001 | 0.00059 | | 0.00035 U | 0.00035 U | 0.00035 U | 0.00035 U | 0.00035 U | 0.00034 U |

Table 16
Summer 2015 Water Quality Chemistry Results

| FINAL VALIDATED DATA | | | | Task | GWMA_2015_SmrDry | GWMA_2015_SmrDry | GWMA_2015_SmrDry | GWMA_2015_SmrDry | GWMA_2015_SmrDry | GWMA_2015_SmrDry |
|--|------------|----|----|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| | | | | Location ID | Inner Harbor - LB | Inner Harbor - LB | Inner Harbor - LB | Inner Harbor - LB | Outer Harbor - LB | Outer Harbor - LB |
| | | | | Location ID | IB-RW-12_201507 | IB-RW-13_201507 | IB-RW-14_201507 | IB-RW-15_201507 | OB-RW-16_201507 | OB-RW-17_201507 |
| | | | | Sample ID | IB-RW-12-G-S-20150707 | IB-RW-13-G-S-20150707 | IB-RW-14-G-S-20150707 | IB-RW-15-G-S-20150707 | OB-RW-16-G-S-20150707 | OB-RW-17-G-S-20150707 |
| | | | | Sample Date | 7/7/2015 | 7/7/2015 | 7/7/2015 | 7/7/2015 | 7/7/2015 | 7/7/2015 |
| | | | | depth_unit | 1 m | 1 m | 1 m | 1 m | 1 m | 0 m |
| | | | | Sample Type | N | N | N | N | N | N |
| | | | | Matrix | WO | WO | WO | WO | WO | WO |
| | | | | X | -118.22678 | -118.21632 | -118.23231 | -118.20335 | -118.22827 | -118.1860575 |
| | | | | Y | 33.76909 | 33.75345 | 33.74899 | 33.74163 | 33.72949 | 33.72739372 |
| | | | | Method | | | | | | |
| | | | | California Toxics Rule Saltwater Continuous Concentration | | | | | | |
| | | | | Criteria for Protection of Human Health | | | | | | |
| PCB Congeners - Low resolution (µg/L) | | | | | | | | | | |
| PCB-018 | SW8270CSIM | -- | -- | 0.00040 U | 0.00040 U | 0.00040 U | 0.00040 U | 0.00041 U | 0.00041 U | |
| PCB-028 | SW8270CSIM | -- | -- | 0.00064 U | 0.00064 U | 0.00064 U | 0.00064 U | 0.00065 U | 0.00065 U | |
| PCB-037 | SW8270CSIM | -- | -- | 0.00046 U | 0.00046 U | 0.00046 U | 0.00046 U | 0.00047 U | 0.00047 U | |
| PCB-044 | SW8270CSIM | -- | -- | 0.00075 U | 0.00075 U | 0.00075 U | 0.00076 U | 0.00076 U | 0.00076 U | |
| PCB-049 | SW8270CSIM | -- | -- | 0.00075 U | 0.00075 U | 0.00075 U | 0.00076 U | 0.00077 U | 0.00077 U | |
| PCB-052 | SW8270CSIM | -- | -- | 0.00049 U | 0.00049 U | 0.00049 U | 0.00050 U | 0.00050 U | 0.00050 U | |
| PCB-066 | SW8270CSIM | -- | -- | 0.00055 U | 0.00055 U | 0.00055 U | 0.00056 U | 0.00056 U | 0.00056 U | |
| PCB-070 | SW8270CSIM | -- | -- | 0.00037 U | 0.00037 U | 0.00037 U | 0.00037 U | 0.00037 U | 0.00037 U | |
| PCB-074 | SW8270CSIM | -- | -- | 0.00041 U | 0.00041 U | 0.00041 U | 0.00042 U | 0.00042 U | 0.00042 U | |
| PCB-077 | SW8270CSIM | -- | -- | 0.00063 U | 0.00063 U | 0.00063 U | 0.00063 U | 0.00064 U | 0.00064 U | |
| PCB-081 | SW8270CSIM | -- | -- | 0.00047 U | 0.00047 U | 0.00047 U | 0.00047 U | 0.00047 U | 0.00047 U | |
| PCB-087 | SW8270CSIM | -- | -- | 0.00048 U | 0.00048 U | 0.00048 U | 0.00048 U | 0.00049 U | 0.00049 U | |
| PCB-099 | SW8270CSIM | -- | -- | 0.00058 U | 0.00058 U | 0.00058 U | 0.00059 U | 0.00059 U | 0.00059 U | |
| PCB-101 | SW8270CSIM | -- | -- | 0.00056 U | 0.00056 U | 0.00056 U | 0.00056 U | 0.00057 U | 0.00057 U | |
| PCB-105 | SW8270CSIM | -- | -- | 0.00036 U | 0.00036 U | 0.00036 U | 0.00037 U | 0.00037 U | 0.00037 U | |
| PCB-110 | SW8270CSIM | -- | -- | 0.00048 U | 0.00048 U | 0.00048 U | 0.00049 U | 0.00049 U | 0.00049 U | |
| PCB-114 | SW8270CSIM | -- | -- | 0.00042 U | 0.00042 U | 0.00042 U | 0.00043 U | 0.00043 U | 0.00043 U | |
| PCB-118 | SW8270CSIM | -- | -- | 0.00047 U | 0.00047 U | 0.00047 U | 0.00048 U | 0.00048 U | 0.00048 U | |
| PCB-119 | SW8270CSIM | -- | -- | 0.00041 U | 0.00041 U | 0.00041 U | 0.00042 U | 0.00042 U | 0.00042 U | |
| PCB-123 | SW8270CSIM | -- | -- | 0.00074 U | 0.00074 U | 0.00074 U | 0.00074 U | 0.00075 U | 0.00075 U | |
| PCB-126 | SW8270CSIM | -- | -- | 0.00052 U | 0.00052 U | 0.00052 U | 0.00053 U | 0.00053 U | 0.00053 U | |
| PCB-128 | SW8270CSIM | -- | -- | 0.00068 U | 0.00068 U | 0.00068 U | 0.00068 U | 0.00069 U | 0.00069 U | |
| PCB-132/153 | SW8270CSIM | -- | -- | 0.0011 U | 0.0011 U | 0.0011 U | 0.0011 U | 0.0012 U | 0.0012 U | |
| PCB-138/158 | SW8270CSIM | -- | -- | 0.0011 U | 0.0011 U | 0.0011 U | 0.0011 U | 0.0011 U | 0.0011 U | |
| PCB-149 | SW8270CSIM | -- | -- | 0.00049 U | 0.00049 U | 0.00049 U | 0.00049 U | 0.00050 U | 0.00050 U | |
| PCB-151 | SW8270CSIM | -- | -- | 0.00059 U | 0.00059 U | 0.00059 U | 0.00059 U | 0.00060 U | 0.00060 U | |
| PCB-156 | SW8270CSIM | -- | -- | 0.00049 U | 0.00049 U | 0.00049 U | 0.00050 U | 0.00050 U | 0.00050 U | |
| PCB-157 | SW8270CSIM | -- | -- | 0.00072 U | 0.00072 U | 0.00072 U | 0.00073 U | 0.00074 U | 0.00074 U | |
| PCB-167 | SW8270CSIM | -- | -- | 0.00083 U | 0.00083 U | 0.00083 U | 0.00084 U | 0.00085 U | 0.00085 U | |
| PCB-168 | SW8270CSIM | -- | -- | 0.00032 U | 0.00032 U | 0.00032 U | 0.00032 U | 0.00032 U | 0.00032 U | |
| PCB-169 | SW8270CSIM | -- | -- | 0.00054 U | 0.00054 U | 0.00054 U | 0.00055 U | 0.00055 U | 0.00055 U | |
| PCB-170 | SW8270CSIM | -- | -- | 0.00054 U | 0.00054 U | 0.00054 U | 0.00055 U | 0.00055 U | 0.00055 U | |
| PCB-177 | SW8270CSIM | -- | -- | 0.00055 U | 0.00055 U | 0.00055 U | 0.00055 U | 0.00056 U | 0.00056 U | |
| PCB-180 | SW8270CSIM | -- | -- | 0.00069 U | 0.00069 U | 0.00069 U | 0.00070 U | 0.00070 U | 0.00088 J | |
| PCB-183 | SW8270CSIM | -- | -- | 0.00051 U | 0.00051 U | 0.00051 U | 0.00052 U | 0.00052 U | 0.00052 U | |
| PCB-187 | SW8270CSIM | -- | -- | 0.00054 U | 0.00054 U | 0.00054 U | 0.00054 U | 0.00055 U | 0.00055 U | |
| PCB-189 | SW8270CSIM | -- | -- | 0.00038 U | 0.00038 U | 0.00038 U | 0.00039 U | 0.00039 U | 0.00039 U | |

Table 16
Summer 2015 Water Quality Chemistry Results

| FINAL VALIDATED DATA | | | | Task | GWMA_2015_SmrDry | GWMA_2015_SmrDry | GWMA_2015_SmrDry | GWMA_2015_SmrDry | GWMA_2015_SmrDry | GWMA_2015_SmrDry |
|---|------------|------|---------|-------------|---|--|-----------------------|-----------------------|-----------------------|-----------------------|
| | | | | Location ID | Inner Harbor - LB | Inner Harbor - LB | Inner Harbor - LB | Inner Harbor - LB | Outer Harbor - LB | Outer Harbor - LB |
| | | | | Location ID | IB-RW-12_201507 | IB-RW-13_201507 | IB-RW-14_201507 | IB-RW-15_201507 | OB-RW-16_201507 | OB-RW-17_201507 |
| | | | | Sample ID | IB-RW-12-G-S-20150707 | IB-RW-13-G-S-20150707 | IB-RW-14-G-S-20150707 | IB-RW-15-G-S-20150707 | OB-RW-16-G-S-20150707 | OB-RW-17-G-S-20150707 |
| | | | | Sample Date | 7/7/2015 | 7/7/2015 | 7/7/2015 | 7/7/2015 | 7/7/2015 | 7/7/2015 |
| | | | | depth_unit | 1 m | 1 m | 1 m | 1 m | 1 m | 0 m |
| | | | | Sample Type | N | N | N | N | N | N |
| | | | | Matrix | WO | WO | WO | WO | WO | WO |
| | | | | X | -118.22678 | -118.21632 | -118.23231 | -118.20335 | -118.22827 | -118.1860575 |
| | | | | Y | 33.76909 | 33.75345 | 33.74899 | 33.74163 | 33.72949 | 33.72739372 |
| | | | | Method | California Toxics Rule Saltwater Continuous Concentration | Criteria for Protection of Human Health | | | | |
| PCB-194 | SW8270CSIM | -- | -- | 0.00040 U | 0.00040 U | 0.00040 U | 0.00041 U | 0.00041 U | 0.00041 U | 0.00041 U |
| PCB-195 | SW8270CSIM | -- | -- | 0.00034 U | 0.00034 U | 0.00034 U | 0.00034 U | 0.00035 U | 0.00035 U | 0.00035 U |
| PCB-201 | SW8270CSIM | -- | -- | 0.00070 U | 0.00070 U | 0.00070 U | 0.00070 U | 0.00071 U | 0.00071 U | 0.00071 U |
| PCB-206 | SW8270CSIM | -- | -- | 0.00025 U | 0.00025 U | 0.00025 U | 0.00025 U | 0.00025 U | 0.00025 U | 0.00025 U |
| Total PCB congener - low resolution (U = 0) | -- | 0.03 | 0.00017 | 0.00055 U | 0.00055 U | 0.00055 U | 0.00055 U | 0.00060 U | 0.00088 J | 0.00088 J |

Table 16
Summer 2015 Water Quality Chemistry Results

| FINAL VALIDATED DATA | | | | Task | GWMA_2015_SmrDry | GWMA_2015_SmrDry | GWMA_2015_SmrDry | GWMA_2015_SmrDry | GWMA_2015_SmrDry | GWMA_2015_SmrDry |
|---------------------------------------|---------|--------|---------|---|-------------------------|-----------------------|-----------------------|-----------------------|---------------------------|---------------------------|
| | | | | Location ID | Outer Harbor - LB | San Pedro Bay | San Pedro Bay | San Pedro Bay | Los Angeles River Estuary | Los Angeles River Estuary |
| | | | | Location ID | OB-RW-17_201507 | SP-RW-18_201507 | SP-RW-19_201507 | SP-RW-20_201507 | LE-RW-21_201507 | LE-RW-21_201507 |
| | | | | Sample ID | OB-RW-1017-G-S-20150707 | SP-RW-18-G-S-20150707 | SP-RW-19-G-S-20150707 | SP-RW-20-G-S-20150707 | LE-RW-21-G-S-20150707 | LE-RW-1021-G-S-20150707 |
| | | | | Sample Date | 7/7/2015 | 7/7/2015 | 7/7/2015 | 7/7/2015 | 7/7/2015 | 7/7/2015 |
| | | | | depth_unit | 0 m | 0 m | 0 m | 0 m | 0.2 m | 0.2 m |
| | | | | Sample Type | FD | N | N | N | N | FD |
| | | | | Matrix | WO | WO | WO | WO | WO | WO |
| | | | | X | -118.1860575 | -118.1813321 | -118.131908 | -118.1573314 | -118.193394 | -118.193394 |
| | | | | Y | 33.72739372 | 33.753832 | 33.73667144 | 33.7254797 | 33.75644 | 33.75644 |
| | | | | Method | | | | | | |
| | | | | California Toxics Rule Saltwater Continuous Concentration | | | | | | |
| | | | | Criteria for Protection of Human Health | | | | | | |
| Conventional Parameters (mg/L) | | | | | | | | | | |
| Total suspended solids (surface) | SM2540D | -- | -- | | 0.83 U | 2.9 | 0.83 U | 0.83 U | 2.8 | 6.6 |
| Total suspended solids (middle)* | SM2540D | -- | -- | | -- | 0.83 U | 0.83 U | 0.83 U | 6.4 | -- |
| Total suspended solids (bottom)* | SM2540D | -- | -- | | -- | 2.0 | 0.83 U | 0.83 U | 8.2 | -- |
| Metals (µg/L) | | | | | | | | | | |
| Cadmium | E1640 | -- | -- | | -- | 0.0279 J | 0.0217 J | 0.0178 J | 0.0370 | -- |
| Chromium | E1640 | -- | -- | | -- | 0.419 J | 0.368 J | 0.392 J | 0.355 J | -- |
| Copper | E1640 | -- | -- | | -- | 1.79 | 0.827 | 0.855 | 2.02 | -- |
| Lead | E1640 | -- | -- | | -- | 0.332 | 0.109 | 0.0945 | 0.245 | -- |
| Mercury | E1631E | -- | -- | | -- | 0.000988 | 0.000874 | 0.000651 | 0.00112 | -- |
| Zinc | E1640 | -- | -- | | -- | 15.6 | 2.55 | 2.01 | 12.2 | -- |
| Metals, Dissolved (µg/L) | | | | | | | | | | |
| Cadmium | E1640 | 9.3 | -- | | -- | 0.0200 J | 0.0195 J | 0.0152 J | 0.0283 J | -- |
| Chromium | E1640 | 50 | -- | | -- | 0.325 J | 0.348 J | 0.363 J | 0.309 J | -- |
| Copper | E1640 | 3.1 | -- | | -- | 1.05 | 0.570 | 0.683 | 1.38 | -- |
| Lead | E1640 | 8.1 | -- | | -- | 0.0424 | 0.0264 J | 0.0600 | 0.0564 | -- |
| Mercury | E1631E | 0.94 | 0.051 | | -- | 0.000113 U | 0.000113 U | 0.000737 | 0.000113 U | -- |
| Zinc | E1640 | 81 | -- | | -- | 14.6 | 2.35 | 1.50 | 8.58 | -- |
| Pesticides (µg/L) | | | | | | | | | | |
| 2,4'-DDD (o,p'-DDD) | SW8081A | -- | -- | | -- | 0.00057 U | 0.00057 U | 0.00058 U | 0.00058 U | -- |
| 2,4'-DDE (o,p'-DDE) | SW8081A | -- | -- | | -- | 0.00048 U | 0.00048 U | 0.00048 U | 0.00048 U | -- |
| 2,4'-DDT (o,p'-DDT) | SW8081A | -- | -- | | -- | 0.00067 U | 0.00067 U | 0.00068 U | 0.00068 U | -- |
| 4,4'-DDD (p,p'-DDD) | SW8081A | -- | -- | | -- | 0.00054 U | 0.00054 U | 0.00054 U | 0.00054 U | -- |
| 4,4'-DDE (p,p'-DDE) | SW8081A | -- | -- | | -- | 0.00047 U | 0.00047 U | 0.00047 U | 0.00047 U | -- |
| 4,4'-DDT (p,p'-DDT) | SW8081A | 0.001 | 0.00059 | | -- | 0.00054 U | 0.00054 U | 0.00055 U | 0.00055 U | -- |
| Chlordane, alpha- (Chlordane, cis-) | SW8081A | -- | -- | | -- | 0.00048 U | 0.00048 U | 0.00049 U | 0.00049 U | -- |
| Chlordane, beta- (Chlordane, trans-) | SW8081A | -- | -- | | -- | 0.00048 U | 0.00048 U | 0.00048 U | 0.00048 U | -- |
| Dieldrin | SW8081A | 0.0019 | 0.00014 | | -- | 0.00054 U | 0.00054 U | 0.00054 U | 0.00054 U | -- |
| Nonachlor, cis- | SW8081A | -- | -- | | -- | 0.00049 U | 0.00049 U | 0.00050 U | 0.00050 U | -- |
| Nonachlor, trans- | SW8081A | -- | -- | | -- | 0.00055 U | 0.00055 U | 0.00055 U | 0.00055 U | -- |
| Oxychlordane | SW8081A | -- | -- | | -- | 0.00061 U | 0.00061 U | 0.00062 U | 0.00062 U | -- |
| Toxaphene | SW8081A | 0.0002 | -- | | -- | 0.0081 U | 0.0081 U | 0.0082 U | 0.0082 U | -- |
| Total chlordane (U = 0) | -- | 0.004 | 0.00059 | | -- | 0.00031 U | 0.00031 U | 0.00031 U | 0.00031 U | -- |
| Total DDx (U = 0) | -- | 0.001 | 0.00059 | | -- | 0.00034 U | 0.00034 U | 0.00034 U | 0.00034 U | -- |

Table 16
Summer 2015 Water Quality Chemistry Results

| FINAL VALIDATED DATA | | | | Task | GWMA_2015_SmrDry | GWMA_2015_SmrDry | GWMA_2015_SmrDry | GWMA_2015_SmrDry | GWMA_2015_SmrDry | GWMA_2015_SmrDry |
|--|------------|----|----|---|-------------------------|-----------------------|-----------------------|-----------------------|---------------------------|---------------------------|
| | | | | Location ID | Outer Harbor - LB | San Pedro Bay | San Pedro Bay | San Pedro Bay | Los Angeles River Estuary | Los Angeles River Estuary |
| | | | | Location ID | OB-RW-17_201507 | SP-RW-18_201507 | SP-RW-19_201507 | SP-RW-20_201507 | LE-RW-21_201507 | LE-RW-21_201507 |
| | | | | Sample ID | OB-RW-1017-G-S-20150707 | SP-RW-18-G-S-20150707 | SP-RW-19-G-S-20150707 | SP-RW-20-G-S-20150707 | LE-RW-21-G-S-20150707 | LE-RW-1021-G-S-20150707 |
| | | | | Sample Date | 7/7/2015 | 7/7/2015 | 7/7/2015 | 7/7/2015 | 7/7/2015 | 7/7/2015 |
| | | | | depth_unit | 0 m | 0 m | 0 m | 0 m | 0.2 m | 0.2 m |
| | | | | Sample Type | FD | N | N | N | N | FD |
| | | | | Matrix | WO | WO | WO | WO | WO | WO |
| | | | | X | -118.1860575 | -118.1813321 | -118.131908 | -118.1573314 | -118.193394 | -118.193394 |
| | | | | Y | 33.72739372 | 33.753832 | 33.73667144 | 33.7254797 | 33.75644 | 33.75644 |
| | | | | Method | | | | | | |
| | | | | California Toxics Rule Saltwater Continuous Concentration | | | | | | |
| | | | | Criteria for Protection of Human Health | | | | | | |
| PCB Congeners - Low resolution (µg/L) | | | | | | | | | | |
| PCB-018 | SW8270CSIM | -- | -- | -- | 0.00041 U | 0.00042 U | 0.00052 U | 0.00041 U | -- | -- |
| PCB-028 | SW8270CSIM | -- | -- | -- | 0.00065 U | 0.00066 U | 0.00083 U | 0.00065 U | -- | -- |
| PCB-037 | SW8270CSIM | -- | -- | -- | 0.00047 U | 0.00048 U | 0.00060 U | 0.00047 U | -- | -- |
| PCB-044 | SW8270CSIM | -- | -- | -- | 0.00077 U | 0.00078 U | 0.00098 U | 0.00076 U | -- | -- |
| PCB-049 | SW8270CSIM | -- | -- | -- | 0.00077 U | 0.00078 U | 0.00098 U | 0.00077 U | -- | -- |
| PCB-052 | SW8270CSIM | -- | -- | -- | 0.00051 U | 0.00051 U | 0.00064 U | 0.00050 U | -- | -- |
| PCB-066 | SW8270CSIM | -- | -- | -- | 0.00057 U | 0.00057 U | 0.00072 U | 0.00056 U | -- | -- |
| PCB-070 | SW8270CSIM | -- | -- | -- | 0.00038 U | 0.00038 U | 0.00047 U | 0.00037 U | -- | -- |
| PCB-074 | SW8270CSIM | -- | -- | -- | 0.00042 U | 0.00043 U | 0.00053 U | 0.00042 U | -- | -- |
| PCB-077 | SW8270CSIM | -- | -- | -- | 0.00065 U | 0.00065 U | 0.00082 U | 0.00064 U | -- | -- |
| PCB-081 | SW8270CSIM | -- | -- | -- | 0.00048 U | 0.00048 U | 0.00060 U | 0.00047 U | -- | -- |
| PCB-087 | SW8270CSIM | -- | -- | -- | 0.00049 U | 0.00050 U | 0.00062 U | 0.00049 U | -- | -- |
| PCB-099 | SW8270CSIM | -- | -- | -- | 0.00060 U | 0.00060 U | 0.00076 U | 0.00059 U | -- | -- |
| PCB-101 | SW8270CSIM | -- | -- | -- | 0.00057 U | 0.00058 U | 0.00072 U | 0.00057 U | -- | -- |
| PCB-105 | SW8270CSIM | -- | -- | -- | 0.00037 U | 0.00038 U | 0.00047 U | 0.00037 U | -- | -- |
| PCB-110 | SW8270CSIM | -- | -- | -- | 0.00050 U | 0.00050 U | 0.00063 U | 0.00049 U | -- | -- |
| PCB-114 | SW8270CSIM | -- | -- | -- | 0.00044 U | 0.00044 U | 0.00055 U | 0.00043 U | -- | -- |
| PCB-118 | SW8270CSIM | -- | -- | -- | 0.00049 U | 0.00049 U | 0.00061 U | 0.00048 U | -- | -- |
| PCB-119 | SW8270CSIM | -- | -- | -- | 0.00043 U | 0.00043 U | 0.00054 U | 0.00042 U | -- | -- |
| PCB-123 | SW8270CSIM | -- | -- | -- | 0.00076 U | 0.00077 U | 0.00096 U | 0.00075 U | -- | -- |
| PCB-126 | SW8270CSIM | -- | -- | -- | 0.00054 U | 0.00055 U | 0.00068 U | 0.00053 U | -- | -- |
| PCB-128 | SW8270CSIM | -- | -- | -- | 0.00070 U | 0.00070 U | 0.00088 U | 0.00069 U | -- | -- |
| PCB-132/153 | SW8270CSIM | -- | -- | -- | 0.0012 U | 0.0012 U | 0.0015 U | 0.0012 U | -- | -- |
| PCB-138/158 | SW8270CSIM | -- | -- | -- | 0.0011 U | 0.0011 U | 0.0014 U | 0.0011 U | -- | -- |
| PCB-149 | SW8270CSIM | -- | -- | -- | 0.00050 U | 0.00050 U | 0.00063 U | 0.00050 U | -- | -- |
| PCB-151 | SW8270CSIM | -- | -- | -- | 0.00061 U | 0.00061 U | 0.00077 U | 0.00060 U | -- | -- |
| PCB-156 | SW8270CSIM | -- | -- | -- | 0.00051 U | 0.00051 U | 0.00064 U | 0.00050 U | -- | -- |
| PCB-157 | SW8270CSIM | -- | -- | -- | 0.00074 U | 0.00075 U | 0.00094 U | 0.00074 U | -- | -- |
| PCB-167 | SW8270CSIM | -- | -- | -- | 0.00086 U | 0.00087 U | 0.0011 U | 0.00085 U | -- | -- |
| PCB-168 | SW8270CSIM | -- | -- | -- | 0.00032 U | 0.00033 U | 0.00041 U | 0.00032 U | -- | -- |
| PCB-169 | SW8270CSIM | -- | -- | -- | 0.00056 U | 0.00056 U | 0.00070 U | 0.00055 U | -- | -- |
| PCB-170 | SW8270CSIM | -- | -- | -- | 0.00056 U | 0.00056 U | 0.00070 U | 0.00055 U | -- | -- |
| PCB-177 | SW8270CSIM | -- | -- | -- | 0.00057 U | 0.00057 U | 0.00071 U | 0.00056 U | -- | -- |
| PCB-180 | SW8270CSIM | -- | -- | -- | 0.00071 U | 0.00072 U | 0.00090 U | 0.00084 J | -- | -- |
| PCB-183 | SW8270CSIM | -- | -- | -- | 0.00053 U | 0.00053 U | 0.00067 U | 0.00052 U | -- | -- |
| PCB-187 | SW8270CSIM | -- | -- | -- | 0.00055 U | 0.00056 U | 0.00070 U | 0.00055 U | -- | -- |
| PCB-189 | SW8270CSIM | -- | -- | -- | 0.00040 U | 0.00040 U | 0.00050 U | 0.00039 U | -- | -- |

Table 16
Summer 2015 Water Quality Chemistry Results

| | | | | | | | | | | |
|---|---------------|--|--|-------------|-------------------------|-----------------------|-----------------------|-----------------------|---------------------------|---------------------------|
| FINAL VALIDATED DATA | | | | Task | GWMA_2015_SmrDry | GWMA_2015_SmrDry | GWMA_2015_SmrDry | GWMA_2015_SmrDry | GWMA_2015_SmrDry | GWMA_2015_SmrDry |
| | | | | Location ID | Outer Harbor - LB | San Pedro Bay | San Pedro Bay | San Pedro Bay | Los Angeles River Estuary | Los Angeles River Estuary |
| | | | | Location ID | OB-RW-17_201507 | SP-RW-18_201507 | SP-RW-19_201507 | SP-RW-20_201507 | LE-RW-21_201507 | LE-RW-21_201507 |
| | | | | Sample ID | OB-RW-1017-G-S-20150707 | SP-RW-18-G-S-20150707 | SP-RW-19-G-S-20150707 | SP-RW-20-G-S-20150707 | LE-RW-21-G-S-20150707 | LE-RW-1021-G-S-20150707 |
| | | | | Sample Date | 7/7/2015 | 7/7/2015 | 7/7/2015 | 7/7/2015 | 7/7/2015 | 7/7/2015 |
| | | | | depth_unit | 0 m | 0 m | 0 m | 0 m | 0.2 m | 0.2 m |
| | | | | Sample Type | FD | N | N | N | N | FD |
| | | | | Matrix | WO | WO | WO | WO | WO | WO |
| | | | | X | -118.1860575 | -118.1813321 | -118.131908 | -118.1573314 | -118.193394 | -118.193394 |
| | | | | Y | 33.72739372 | 33.753832 | 33.73667144 | 33.7254797 | 33.75644 | 33.75644 |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | Method | California Toxics Rule Saltwater Continuous Concentration | Criteria for Protection of Human Health | | | | | | | |
| PCB-194 | SW8270CSIM | -- | -- | -- | 0.00042 U | 0.00042 U | 0.00052 U | 0.00041 U | -- | -- |
| PCB-195 | SW8270CSIM | -- | -- | -- | 0.00035 U | 0.00035 U | 0.00044 U | 0.00035 U | -- | -- |
| PCB-201 | SW8270CSIM | -- | -- | -- | 0.00072 U | 0.00072 U | 0.00090 U | 0.00071 U | -- | -- |
| PCB-206 | SW8270CSIM | -- | -- | -- | 0.00025 U | 0.00026 U | 0.00032 U | 0.00025 U | -- | -- |
| Total PCB congener - low resolution (U = 0) | -- | 0.03 | 0.00017 | -- | <i>0.00060 U</i> | <i>0.00060 U</i> | <i>0.00075 U</i> | 0.00084 J | -- | -- |

Table 16
Summer 2015 Water Quality Chemistry Results

| FINAL VALIDATED DATA | | | | Task | GWMA_2015_SmrDry | Number analyzed | WQ Exceedances | Percentage of Exceedance |
|---------------------------------------|---|---|---------|-------------|---------------------------|-----------------|----------------|--------------------------|
| | | | | Location ID | Los Angeles River Estuary | | | |
| | | | | Location ID | LE-RW-22_201507 | | | |
| | | | | Sample ID | LE-RW-22-G-S-20150707 | | | |
| | | | | Sample Date | 7/7/2015 | | | |
| | | | | depth_unit | 0.5 m | | | |
| | | | | Sample Type | N | | | |
| | | | | Matrix | WO | | | |
| | | | | X | -118.20211 | | | |
| | | | | Y | 33.761013 | | | |
| Method | California Toxics Rule Saltwater Continuous Concentration | Criteria for Protection of Human Health | | | | | | |
| Conventional Parameters (mg/L) | | | | | | | | |
| Total suspended solids (surface) | SM2540D | -- | -- | 3.6 | 25 | -- | -- | -- |
| Total suspended solids (middle)* | SM2540D | -- | -- | 6.2 | 22 | -- | -- | -- |
| Total suspended solids (bottom)* | SM2540D | -- | -- | 9.2 | 22 | -- | -- | -- |
| Metals (µg/L) | | | | | | | | |
| Cadmium | E1640 | -- | -- | 0.0495 | 23 | -- | -- | -- |
| Chromium | E1640 | -- | -- | 0.422 J | 23 | -- | -- | -- |
| Copper | E1640 | -- | -- | 3.30 | 23 | -- | -- | -- |
| Lead | E1640 | -- | -- | 0.410 | 23 | -- | -- | -- |
| Mercury | E1631E | -- | -- | 0.00114 | 23 | -- | -- | -- |
| Zinc | E1640 | -- | -- | 24.9 | 23 | -- | -- | -- |
| Metals, Dissolved (µg/L) | | | | | | | | |
| Cadmium | E1640 | 9.3 | -- | 0.0334 | 23 | 0 | 0% | 0% |
| Chromium | E1640 | 50 | -- | 0.323 J | 23 | 0 | 0% | 0% |
| Copper | E1640 | 3.1 | -- | 2.50 | 23 | 1 | 4% | 4% |
| Lead | E1640 | 8.1 | -- | 0.0781 | 23 | 0 | 0% | 0% |
| Mercury | E1631E | 0.94 | 0.051 | 0.000319 J | 23 | 0 | 0% | 0% |
| Zinc | E1640 | 81 | -- | 27.7 | 23 | 0 | 0% | 0% |
| Pesticides (µg/L) | | | | | | | | |
| 2,4'-DDD (o,p'-DDD) | SW8081A | -- | -- | 0.00057 U | 23 | -- | -- | -- |
| 2,4'-DDE (o,p'-DDE) | SW8081A | -- | -- | 0.00048 U | 23 | -- | -- | -- |
| 2,4'-DDT (o,p'-DDT) | SW8081A | -- | -- | 0.00067 U | 23 | -- | -- | -- |
| 4,4'-DDD (p,p'-DDD) | SW8081A | -- | -- | 0.00054 U | 23 | -- | -- | -- |
| 4,4'-DDE (p,p'-DDE) | SW8081A | -- | -- | 0.00047 U | 23 | -- | -- | -- |
| 4,4'-DDT (p,p'-DDT) | SW8081A | 0.001 | 0.00059 | 0.00054 U | 23 | 0 | 0% | 0% |
| Chlordane, alpha- (Chlordane, cis-) | SW8081A | -- | -- | 0.00048 U | 23 | -- | -- | -- |
| Chlordane, beta- (Chlordane, trans-) | SW8081A | -- | -- | 0.00048 U | 23 | -- | -- | -- |
| Dieldrin | SW8081A | 0.0019 | 0.00014 | 0.00054 U | 23 | 23 | 100% | 100% |
| Nonachlor, cis- | SW8081A | -- | -- | 0.00049 U | 23 | -- | -- | -- |
| Nonachlor, trans- | SW8081A | -- | -- | 0.00055 U | 23 | -- | -- | -- |
| Oxychlordane | SW8081A | -- | -- | 0.00061 U | 23 | -- | -- | -- |
| Toxaphene | SW8081A | 0.0002 | -- | 0.0081 U | 23 | 23 | 100% | 100% |
| Total chlordane (U = 0) | -- | 0.004 | 0.00059 | 0.00031 U | 23 | 0 | 0% | 0% |
| Total DDx (U = 0) | -- | 0.001 | 0.00059 | 0.00034 U | 23 | 0 | 0% | 0% |

Table 16
Summer 2015 Water Quality Chemistry Results

| FINAL VALIDATED DATA | | | | Task | Number analyzed | WQ Exceedances | Percentage of Exceedance |
|--|---|---|----|-------------|-----------------|----------------|--------------------------|
| | | | | Location ID | | | |
| Location ID | | | | | | | |
| Sample ID | | | | | | | |
| Sample Date | | | | | | | |
| depth_unit | | | | | | | |
| Sample Type | | | | | | | |
| Matrix | | | | | | | |
| X | | | | | | | |
| Y | | | | | | | |
| Method | California Toxics Rule Saltwater Continuous Concentration | Criteria for Protection of Human Health | | | | | |
| PCB Congeners - Low resolution (µg/L) | | | | | | | |
| PCB-018 | SW8270CSIM | -- | -- | 0.00041 U | 23 | -- | -- |
| PCB-028 | SW8270CSIM | -- | -- | 0.00065 U | 23 | -- | -- |
| PCB-037 | SW8270CSIM | -- | -- | 0.00047 U | 23 | -- | -- |
| PCB-044 | SW8270CSIM | -- | -- | 0.00076 U | 23 | -- | -- |
| PCB-049 | SW8270CSIM | -- | -- | 0.00077 U | 23 | -- | -- |
| PCB-052 | SW8270CSIM | -- | -- | 0.00050 U | 23 | -- | -- |
| PCB-066 | SW8270CSIM | -- | -- | 0.00056 U | 23 | -- | -- |
| PCB-070 | SW8270CSIM | -- | -- | 0.00037 U | 23 | -- | -- |
| PCB-074 | SW8270CSIM | -- | -- | 0.00042 U | 23 | -- | -- |
| PCB-077 | SW8270CSIM | -- | -- | 0.00064 U | 23 | -- | -- |
| PCB-081 | SW8270CSIM | -- | -- | 0.00047 U | 23 | -- | -- |
| PCB-087 | SW8270CSIM | -- | -- | 0.00049 U | 23 | -- | -- |
| PCB-099 | SW8270CSIM | -- | -- | 0.00059 U | 23 | -- | -- |
| PCB-101 | SW8270CSIM | -- | -- | 0.00057 U | 23 | -- | -- |
| PCB-105 | SW8270CSIM | -- | -- | 0.00037 U | 23 | -- | -- |
| PCB-110 | SW8270CSIM | -- | -- | 0.00049 U | 23 | -- | -- |
| PCB-114 | SW8270CSIM | -- | -- | 0.00043 U | 23 | -- | -- |
| PCB-118 | SW8270CSIM | -- | -- | 0.00048 U | 23 | -- | -- |
| PCB-119 | SW8270CSIM | -- | -- | 0.00042 U | 23 | -- | -- |
| PCB-123 | SW8270CSIM | -- | -- | 0.00075 U | 23 | -- | -- |
| PCB-126 | SW8270CSIM | -- | -- | 0.00053 U | 23 | -- | -- |
| PCB-128 | SW8270CSIM | -- | -- | 0.00069 U | 23 | -- | -- |
| PCB-132/153 | SW8270CSIM | -- | -- | 0.0012 U | 23 | -- | -- |
| PCB-138/158 | SW8270CSIM | -- | -- | 0.0011 U | 23 | -- | -- |
| PCB-149 | SW8270CSIM | -- | -- | 0.00050 U | 23 | -- | -- |
| PCB-151 | SW8270CSIM | -- | -- | 0.00060 U | 23 | -- | -- |
| PCB-156 | SW8270CSIM | -- | -- | 0.00050 U | 23 | -- | -- |
| PCB-157 | SW8270CSIM | -- | -- | 0.00074 U | 23 | -- | -- |
| PCB-167 | SW8270CSIM | -- | -- | 0.00085 U | 23 | -- | -- |
| PCB-168 | SW8270CSIM | -- | -- | 0.00032 U | 23 | -- | -- |
| PCB-169 | SW8270CSIM | -- | -- | 0.00055 U | 23 | -- | -- |
| PCB-170 | SW8270CSIM | -- | -- | 0.00055 U | 23 | -- | -- |
| PCB-177 | SW8270CSIM | -- | -- | 0.00056 U | 23 | -- | -- |
| PCB-180 | SW8270CSIM | -- | -- | 0.00070 U | 23 | -- | -- |
| PCB-183 | SW8270CSIM | -- | -- | 0.00052 U | 23 | -- | -- |
| PCB-187 | SW8270CSIM | -- | -- | 0.00055 U | 23 | -- | -- |
| PCB-189 | SW8270CSIM | -- | -- | 0.00039 U | 23 | -- | -- |

**Table 16
Summer 2015 Water Quality Chemistry Results**

| FINAL VALIDATED DATA | | | | Task | Number analyzed | WQ Exceedances | Percentage of Exceedance |
|---|---|---|---------|-------------|-----------------|----------------|--------------------------|
| | | | | Location ID | | | |
| | | | | Location ID | | | |
| | | | | Sample ID | | | |
| | | | | Sample Date | | | |
| | | | | depth_unit | | | |
| | | | | Sample Type | | | |
| | | | | Matrix | | | |
| | | | | X | | | |
| | | | | Y | | | |
| Method | California Toxics Rule Saltwater Continuous Concentration | Criteria for Protection of Human Health | | | | | |
| PCB-194 | SW8270CSIM | -- | -- | 0.00041 U | 23 | -- | -- |
| PCB-195 | SW8270CSIM | -- | -- | 0.00035 U | 23 | -- | -- |
| PCB-201 | SW8270CSIM | -- | -- | 0.00071 U | 23 | -- | -- |
| PCB-206 | SW8270CSIM | -- | -- | 0.00025 U | 23 | -- | -- |
| Total PCB congener - low resolution (U = 0) | -- | 0.03 | 0.00017 | 0.00060 U | 23 | 23 | 100% |

Table 16
Summer 2015 Water Quality Chemistry Results

Notes:

*The total suspended solid results for samples collected from mid-depth and bottom depth are respectively labelled as "-M-" and "-B-" preceding the sample ID date. They are not direct results of the surface sample IDs indicated in the column headers in this spreadsheet.

Horizontal coordinate datum is NAD 1983 State Plane California V FIPS 0405 (US Survey Feet).

All undetect results are reported at the method detection limit.


Totals (U=0) are calculated as the sum of all detected results. If all results are not detected, half of the highest reporting limit value is reported as the sum.


Total chlordane is the sum of alpha-chlordane, beta-chlordane, gamma-chlordane, cis-nonachlor, trans-nonachlor, and oxychlordane.

Total DDX is the sum of 4,4'-DDD, 4,4'-DDE, 4,4'-DDT, 2,4'-DDD, 2,4'-DDE, and 2,4'-DDT, if measured.

Total PCB congeners is the sum of all PCB congeners listed in this table.

USEPA Stage 2A data validation was completed by Anchor QEA.

 Detected concentration is greater than California Toxics Rule Saltwater Continuous Concentration screening level

 Detected concentration is greater than the Criteria for Protection of Human Health

Italics = Non-detected concentration is above one or more identified screening levels

Bold = detected result

-- = results not reported or not applicable

µg/L = micrograms per liter

FD = field duplicate

J = estimated value

m = meters

mg/L = milligrams per liter

N = normal environmental sample

NAD = North American Datum

PCB = polychlorinated biphenyls

U = compound analyzed, but not detected above detection limit

USEPA = U.S. Environmental Protection Agency

WO = ocean water matrix

WQ = water quality control sample matrix

Table 17
Amec Foster Wheeler Sediment Field Data (Bight 2013)

| TMDL Waterbody | Site | Sample Type | Actual Collection Coordinates | | Sample Collection | Analysis Type | | | Field Duplicate |
|-------------------|----------|-------------|-------------------------------|------------|-------------------|---------------|----------|-----------------|-----------------|
| | | | Latitude | Longitude | | Chemical | Toxicity | Benthic Infauna | |
| Outer Harbor - LA | B13-8302 | Sediment | 33.71242 | -118.25790 | Grab, trawl | X | X | X | |
| Outer Harbor - LA | B13-8304 | Sediment | 33.71345 | -118.24131 | Grab, trawl | X | X | X | |
| Cabrillo Beach | B13-8306 | Sediment | 33.71475 | -118.28269 | Grab, trawl | X | X | X | |
| Outer Harbor - LA | B13-8308 | Sediment | 33.71740 | -118.24385 | Grab, trawl | X | X | X | |
| Outer Harbor - LA | B13-8310 | Sediment | 33.71791 | -118.23298 | Grab, trawl | X | X | X | |
| Inner Harbor - LA | B13-8316 | Sediment | 33.72387 | -118.26270 | Grab, trawl | X | X | X | |
| Outer Harbor - LB | B13-8318 | Sediment | 33.72421 | -118.22437 | Grab, trawl | X | X | X | |
| Outer Harbor - LB | B13-8322 | Sediment | 33.72762 | -118.21274 | Grab, trawl | X | X | X | |
| Outer Harbor - LB | B13-8326 | Sediment | 33.72924 | -118.23361 | Grab, trawl | X | X | X | |
| Outer Harbor - LB | B13-8333 | Sediment | 33.73110 | -118.19240 | Grab, trawl | X | X | X | |
| Inner Harbor - LA | B13-8340 | Sediment | 33.73549 | -118.27676 | Grab, trawl | X | X | X | |
| Outer Harbor - LB | B13-8347 | Sediment | 33.73891 | -118.21039 | Grab, trawl | X | X | X | |
| Outer Harbor - LB | B13-8349 | Sediment | 33.73906 | -118.23651 | Grab, trawl | X | X | X | |
| Inner Harbor - LB | B13-8356 | Sediment | 33.74337 | -118.20448 | Grab, trawl | X | X | X | |
| Outer Harbor - LB | B13-8360 | Sediment | 33.74553 | -118.21570 | Grab, trawl | X | X | X | |
| Inner Harbor - LB | B13-8363 | Sediment | 33.74719 | -118.22137 | Grab, trawl | X | X | X | |
| Inner Harbor - LB | B13-8365 | Sediment | 33.74767 | -118.19819 | Grab, trawl | X | X | X | |
| Inner Harbor - LA | B13-8367 | Sediment | 33.74853 | -118.24890 | Grab, trawl | X | X | X | |
| Inner Harbor - LB | B13-8371 | Sediment | 33.75109 | -118.23063 | Grab, trawl | X | X | X | |
| Inner Harbor - LB | B13-8374 | Sediment | 33.75269 | -118.21776 | Grab, trawl | X | X | X | |
| Inner Harbor - LB | B13-8382 | Sediment | 33.75512 | -118.23012 | Grab, trawl | X | X | X | |
| Inner Harbor - LA | B13-8384 | Sediment | 33.75686 | -118.27742 | Grab, trawl | X | X | X | |
| Inner Harbor - LA | B13-8396 | Sediment | 33.76620 | -118.27747 | Grab, trawl | X | X | X | |
| Inner Harbor - LA | B13-8397 | Sediment | 33.76700 | -118.24938 | Grab, trawl | X | X | X | |
| Inner Harbor - LB | B13-8399 | Sediment | 33.76871 | -118.22204 | Grab, trawl | X | X | X | |
| Inner Harbor - LB | B13-8401 | Sediment | 33.77158 | -118.21180 | Grab, trawl | X | X | X | |
| Cabrillo Marina | TMDL1-CH | Sediment | 33.72225 | -118.27967 | Grab, trawl | X | X | X | |
| Fish Harbor | TMDL2-FH | Sediment | 33.73453 | -118.26658 | Grab, trawl | X | X | X | X |
| Inner Harbor - LB | TMDL3-TB | Sediment | 33.76930 | -118.22504 | Grab, trawl | X | X | X | X |
| Consolidated Slip | TMDL4-CS | Sediment | 33.77518 | -118.24528 | Grab, trawl | X | X | X | |

Note:

Source: Amec Foster Wheeler (2015)

Table 18
2013 Sediment Chemistry Results

| FINAL VALIDATED DATA | | | | Task | 2013_BightSeds | 2013_BightSeds | 2013_BightSeds | 2013_BightSeds | 2013_BightSeds | 2013_BightSeds | 2013_BightSeds | 2013_BightSeds | 2013_BightSeds | |
|---|---------|------|----|------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------------|
| | | | | Area | Inner Harbor - LB | Inner Harbor - LB | Inner Harbor - LB | Inner Harbor - LB | Inner Harbor - LB | Inner Harbor - LB | Inner Harbor - LB | Outer Harbor - LB | Outer Harbor - LB | |
| | | | | Location ID | B13-8356 | B13-8363 | B13-8365 | B13-8371 | B13-8374 | B13-8382 | B13-8399 | B13-8401 | B13-8310 | B13-8318 |
| | | | | Sample ID | B13-8356 | B13-8363 | B13-8365 | B13-8371 | B13-8374 | B13-8382 | B13-8399 | B13-8401 | B13-8310 | B13-8318 |
| | | | | Sample Date | 7/13/2013 | 7/10/2013 | 7/13/2013 | 7/10/2013 | 7/10/2013 | 7/10/2013 | 7/12/2013 | 7/12/2013 | 7/11/2013 | 7/13/2013 |
| | | | | Depth Interval | 0 - 5 cm | 0 - 5 cm | 0 - 5 cm | 0 - 5 cm | 0 - 5 cm | 0 - 5 cm | 0 - 5 cm | 0 - 5 cm | 0 - 5 cm | 0 - 5 cm |
| | | | | Sample Type | N | N | N | N | N | N | N | N | N | N |
| | | | | Matrix | SE | SE | SE | SE | SE | SE | SE | SE | SE | SE |
| | | | | X | -118.20448 | -118.22137 | -118.19819 | -118.23063 | -118.21776 | -118.23012 | -118.22204 | -118.2118 | -118.23298 | -118.22437 |
| | | | | Y | 33.74337 | 33.74719 | 33.74767 | 33.75109 | 33.75269 | 33.75512 | 33.76871 | 33.77158 | 33.71791 | 33.72421 |
| | | | | Fish Tissue Associated | | | | | | | | | | |
| | | | | Sediment Target (ER-L) | | | | | | | | | | |
| | | | | Method | | | | | | | | | | |
| Conventional Parameters (pct) | | | | | | | | | | | | | | |
| Total organic carbon | SW9060 | -- | -- | 1.32 | 0.89 | 1.22 | 0.89 | 1.18 | 1.21 | 1.72 | 3.10 | 1.70 | 1.68 | |
| Total suspended solids | SM2540B | -- | -- | 55.2 | 62.9 | 57.0 | 66.0 | 50.7 | 60.8 | 45.2 | 43.9 | 57.4 | 51.7 | |
| Metals (mg/kg) | | | | | | | | | | | | | | |
| Cadmium | SW6020 | 1.2 | -- | 0.273 | 0.274 | 0.282 J | 0.205 | 0.460 | 0.427 | 3.08 | 0.570 | 0.600 | 0.487 J | |
| Chromium | SW6020 | 81 | -- | 46.4 J | 50.3 J | 55.2 J | 36.0 J | 62.3 J | 56.4 J | 78.6 J | 86.8 J | 57.7 J | 68.8 J | |
| Copper | SW6020 | 34 | -- | 49.2 | 55.4 | 52.9 | 40.4 | 62.7 | 74.0 | 144 | 208 | 44.6 | 58.3 | |
| Lead | SW6020 | 46.7 | -- | 21.6 | 23.6 | 19.1 | 15.5 | 35.8 | 27.7 | 111 | 82.6 | 20.3 | 26.1 | |
| Mercury | E245.7 | 0.15 | -- | 0.142 | 0.242 | 0.143 | 0.182 | 0.258 | 0.462 | 7.19 | 0.923 | 0.196 | 0.232 | |
| Zinc | SW6020 | 150 | -- | 109 | 127 | 122 J | 94.6 | 151 | 156 | 401 | 377 | 115 | 138 J | |
| Semivolatile Organics (µg/kg) | | | | | | | | | | | | | | |
| 1-Methylnaphthalene | SW8270C | -- | -- | 1.9 J | 1 U | 1 U | 1 U | 1 U | 1 U | 1.6 J | 1 U | 1 U | 1 U | |
| 2-Methylnaphthalene | SW8270C | 70 | -- | 3.9 J | 1 U | 1 U | 1 U | 1 U | 1 U | 4.2 J | 1 U | 1 U | 1 U | |
| Acenaphthene | SW8270C | 16 | -- | 1 UJ | 1 U | 1 U | 1 U | 1 U | 1 J | 32.2 J | 1.1 J | 1 UJ | 1 U | |
| Acenaphthylene | SW8270C | 44 | -- | 1 U | 1 U | 1 U | 2.1 J | 1.2 J | 1.8 J | 3.1 J | 9.8 | 1.3 J | 1 U | |
| Anthracene | SW8270C | 85.3 | -- | 6.6 | 2.9 J | 1.5 J | 12.8 | 5.5 | 7.8 | 91 | 57.5 | 1.3 J | 1.9 J | |
| Benzo(a)anthracene | SW8270C | 261 | -- | 15.7 J | 4.6 J | 1.7 J | 18.5 | 7.6 | 13.3 | 53.6 | 72.2 | 6 | 3.1 J | |
| Benzo(a)pyrene | SW8270C | 430 | -- | 21.4 J | 8.1 | 6 | 49.1 | 17.4 | 36.4 | 63.9 | 105.4 | 5.5 | 7.4 | |
| Benzo(b)fluoranthene | SW8270C | -- | -- | 9 J | 9.2 | 3.7 J | 41.1 | 13.8 | 32.6 | 43.5 | 82.4 | 2.7 J | 4.2 J | |
| Benzo(g,h,i)perylene | SW8270C | -- | -- | 13.1 | 3.1 J | 3.4 J | 22.3 | 5.2 | 15.6 | 36.2 | 34.7 | 2.3 J | 3.3 J | |
| Benzo(k)fluoranthene | SW8270C | -- | -- | 4 J | 4.4 J | 2.2 J | 26.2 | 7.6 | 23 | 26.8 | 53.6 | 1.8 J | 1.9 J | |
| Biphenyl (1,1'-Biphenyl) | SW8270C | -- | -- | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1.7 J | 1 U | 1 U | 1 U | |
| Chrysene | SW8270C | 384 | -- | 20.9 J | 6 | 3.5 J | 36.7 | 11.4 | 19.9 | 45 | 123.9 | 5.1 | 4.1 J | |
| Dibenzo(a,h)anthracene | SW8270C | 63.4 | -- | 8.1 | 1 U | 2.8 J | 11.6 | 1 U | 9.1 | 17.6 | 18.8 | 1 U | 3.1 J | |
| Fluoranthene | SW8270C | 600 | -- | 5.9 | 3.2 J | 1.5 J | 17.7 | 11.6 | 8.5 | 356.1 | 47.7 | 7.3 | 4.6 J | |
| Fluorene | SW8270C | 19 | -- | 1 U | 1 U | 1 U | 1.4 J | 1.1 J | 1 U | 8.8 | 4.5 J | 1 U | 1 U | |
| Hexachlorobenzene | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | |
| Indeno(1,2,3-c,d)pyrene | SW8270C | -- | -- | 6.7 | 4.5 J | 5.4 | 31.8 | 8.9 | 25 | 62.1 | 63.8 | 3.1 J | 5.8 | |
| Naphthalene | SW8270C | 160 | -- | 2.8 J | 1 U | 1 U | 1 U | 1.1 J | 1 J | 22.6 | 1.7 J | 1 U | 1 U | |
| Phenanthrene | SW8270C | 240 | -- | 5.2 | 1.2 J | 1 U | 10.6 | 5.8 | 3.3 J | 13.7 | 27.5 | 1.1 J | 1.4 J | |
| Pyrene | SW8270C | 665 | -- | 12.9 J | 2.5 J | 1.8 J | 16.6 | 8.5 | 9.9 | 234.6 | 40 | 9.2 | 5.1 | |
| Total HPAH (9 of 17) (U = 0) | -- | 1700 | -- | 117.7 J | 45.6 J | 32.0 J | 271.6 | 92.0 | 193.3 | 939.4 | 642.5 | 43.0 J | 42.6 J | |
| Total LPAH (8 of 17) (U = 0) | -- | 552 | -- | 18.5 J | 4.1 J | 1.5 J | 26.9 J | 14.7 J | 14.9 J | 177.3 J | 102.1 J | 3.7 J | 3.3 J | |
| Total PAH (17) (U = 0) | -- | 4022 | -- | 136.2 J | 49.7 J | 33.5 J | 298.5 J | 106.7 J | 208.2 J | 1116.7 J | 744.6 J | 46.7 J | 45.9 J | |
| Polycyclic Aromatic Hydrocarbons (µg/kg) | | | | | | | | | | | | | | |
| 1-Methylphenanthrene | SW8270C | -- | -- | 1.9 J | 1 U | 1 U | 2 J | 1 J | 1.3 J | 16.1 | 4.8 J | 1 U | 1 U | |
| 2,3,5-Trimethylnaphthalene (1,6,7-Trimethylnaphthalene) | SW8270C | -- | -- | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | |

Table 18
2013 Sediment Chemistry Results

| FINAL VALIDATED DATA | | | | | | | | | | | | | | |
|---|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|--------|--------|
| Task Area | 2013_BightSeds Inner Harbor - LB | 2013_BightSeds Inner Harbor - LB | 2013_BightSeds Inner Harbor - LB | 2013_BightSeds Inner Harbor - LB | 2013_BightSeds Inner Harbor - LB | 2013_BightSeds Inner Harbor - LB | 2013_BightSeds Inner Harbor - LB | 2013_BightSeds Inner Harbor - LB | 2013_BightSeds Inner Harbor - LB | 2013_BightSeds Inner Harbor - LB | 2013_BightSeds Outer Harbor - LB | 2013_BightSeds Outer Harbor - LB | | |
| Location ID | B13-8356 | B13-8363 | B13-8365 | B13-8371 | B13-8374 | B13-8382 | B13-8399 | B13-8401 | B13-8310 | B13-8318 | | | | |
| Sample ID | B13-8356 | B13-8363 | B13-8365 | B13-8371 | B13-8374 | B13-8382 | B13-8399 | B13-8401 | B13-8310 | B13-8318 | | | | |
| Sample Date | 7/13/2013 | 7/10/2013 | 7/13/2013 | 7/10/2013 | 7/10/2013 | 7/10/2013 | 7/12/2013 | 7/12/2013 | 7/11/2013 | 7/13/2013 | | | | |
| Depth Interval | 0 - 5 cm | 0 - 5 cm | 0 - 5 cm | 0 - 5 cm | 0 - 5 cm | 0 - 5 cm | 0 - 5 cm | 0 - 5 cm | 0 - 5 cm | 0 - 5 cm | | | | |
| Sample Type | N | N | N | N | N | N | N | N | N | N | | | | |
| Matrix | SE | SE | SE | SE | SE | SE | SE | SE | SE | SE | | | | |
| X | -118.20448 | -118.22137 | -118.19819 | -118.23063 | -118.21776 | -118.23012 | -118.22204 | -118.2118 | -118.23298 | -118.22437 | | | | |
| Y | 33.74337 | 33.74719 | 33.74767 | 33.75109 | 33.75269 | 33.75512 | 33.76871 | 33.77158 | 33.71791 | 33.72421 | | | | |
| Method | Sediment Target (ER-L) | Fish Tissue Associated | | | | | | | | | | | | |
| 2,6-Dimethylnaphthalene | SW8270C | -- | -- | 2.4 J | 1 U | 1 U | 1 U | 1 U | 1 U | 2.1 J | 1 J | 1 U | 1 U | |
| Benzo(e)pyrene | SW8270C | -- | -- | 16 J | 3.7 J | 2.5 J | 21.8 | 6.2 | 17.9 | 30.1 | 52.5 | 2.5 J | 2.6 J | |
| Dibenzothiophene | SW8270C | -- | -- | 1.6 J | 1 U | 1 U | 1 U | 1 U | 1 U | 6 | 1 J | 1 U | 1 U | |
| Perylene | SW8270C | -- | -- | 3 J | 3.4 J | 2.7 J | 12.4 | 5.2 | 11.6 | 22.6 | 24 | 6.7 | 7.2 | |
| Pesticides (µg/kg) | | | | | | | | | | | | | | |
| 2,4'-DDD (o,p'-DDD) | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.2 | 0.05 U | 0.05 U |
| 2,4'-DDE (o,p'-DDE) | SW8270C | -- | -- | 0.2 | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.3 | 0.05 U |
| 2,4'-DDT (o,p'-DDT) | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| 4,4'-DDD (p,p'-DDD) | SW8270C | 2 | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.8 | 0.2 | 0.05 U |
| 4,4'-DDE (p,p'-DDE) | SW8270C | 2.2 | -- | 1.1 | 0.5 | 0.05 U | 0.9 | 0.6 | 1 | 2.4 | 1.6 | 2 | 0.6 | |
| 4,4'-DDT (p,p'-DDT) | SW8270C | 1 | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| Aldrin | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| Chlordane, alpha- (Chlordane, cis-) | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| Chlordane, gamma- | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| Dacthal | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| Dicofol | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| Dieldrin | SW8270C | 0.02 | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| Endosulfan sulfate | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| Endosulfan, alpha- (I) | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| Endosulfan, beta (II) | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| Endrin | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| Endrin aldehyde | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| Endrin ketone | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| Heptachlor | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| Heptachlor epoxide | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| Hexachlorocyclohexane (BHC), alpha- | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| Hexachlorocyclohexane (BHC), beta- | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| Hexachlorocyclohexane (BHC), delta- | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| Hexachlorocyclohexane (BHC), gamma- (Lindane) | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| Methoxychlor | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| Mirex | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| Nonachlor, cis- | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| Nonachlor, trans- | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| Oxychlordane | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| p,p'-DDMU | SW8270C | -- | -- | 0.5 | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.5 | 0.05 U | |
| Perthane | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| Toxaphene | SW8270CM | -- | 0.1 | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U |

Table 18
2013 Sediment Chemistry Results

| FINAL VALIDATED DATA | | | | 2013_BightSeds | 2013_BightSeds | 2013_BightSeds | 2013_BightSeds | 2013_BightSeds | 2013_BightSeds | 2013_BightSeds | 2013_BightSeds | 2013_BightSeds | 2013_BightSeds |
|------------------------------|-------------|-----------|-------------|----------------|----------------|----------------|----------------|----------------|------------------------|----------------|------------------------|------------------|----------------|
| Task Area | Location ID | Sample ID | Sample Date | Depth Interval | Sample Type | Matrix | X | Y | Fish Tissue Associated | Method | Sediment Target (ER-L) | Sediment Targets | |
| Inner Harbor - LB | B13-8356 | B13-8356 | 7/13/2013 | 0 - 5 cm | N | SE | -118.20448 | 33.74337 | | | | | |
| Inner Harbor - LB | B13-8363 | B13-8363 | 7/10/2013 | 0 - 5 cm | N | SE | -118.22137 | 33.74719 | | | | | |
| Inner Harbor - LB | B13-8365 | B13-8365 | 7/13/2013 | 0 - 5 cm | N | SE | -118.19819 | 33.74767 | | | | | |
| Inner Harbor - LB | B13-8371 | B13-8371 | 7/10/2013 | 0 - 5 cm | N | SE | -118.23063 | 33.75109 | | | | | |
| Inner Harbor - LB | B13-8374 | B13-8374 | 7/10/2013 | 0 - 5 cm | N | SE | -118.21776 | 33.75269 | | | | | |
| Inner Harbor - LB | B13-8382 | B13-8382 | 7/10/2013 | 0 - 5 cm | N | SE | -118.23012 | 33.75512 | | | | | |
| Inner Harbor - LB | B13-8399 | B13-8399 | 7/12/2013 | 0 - 5 cm | N | SE | -118.22204 | 33.76871 | | | | | |
| Inner Harbor - LB | B13-8401 | B13-8401 | 7/12/2013 | 0 - 5 cm | N | SE | -118.2118 | 33.77158 | | | | | |
| Outer Harbor - LB | B13-8310 | B13-8310 | 7/11/2013 | 0 - 5 cm | N | SE | -118.23298 | 33.71791 | | | | | |
| Outer Harbor - LB | B13-8318 | B13-8318 | 7/13/2013 | 0 - 5 cm | N | SE | -118.22437 | 33.72421 | | | | | |
| Total chlordane (U = 0) | -- | 0.5 | 1.3 | 0.025 U | 0.025 U | 0.025 U | 0.025 U | 0.025 U | 0.025 U | 0.025 U | 0.025 U | 0.025 U | 0.025 U |
| Total DDx (U = 0) | -- | 1.58 | 1.9 | 1.3 | 0.5 | 0.025 U | 0.9 | 0.6 | 1.0 | 2.4 | 2.6 | 2.5 | 0.6 |
| PCB Congeners (µg/kg) | | | | | | | | | | | | | |
| PCB-003 | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| PCB-005 | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| PCB-008 | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| PCB-015 | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| PCB-018 | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| PCB-027 | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| PCB-028 | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| PCB-029 | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| PCB-031 | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| PCB-033 | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| PCB-037 | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| PCB-044 | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.9 | 0.05 U | 0.05 U | 0.05 U |
| PCB-049 | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.2 | 0.05 U | 0.05 U | 0.6 | 0.05 U | 0.05 U | 0.05 U |
| PCB-052 | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.4 | 0.05 U | 0.05 U | 1.4 | 0.05 U | 0.05 U | 0.05 U |
| PCB-056/060 | SW8270C | -- | -- | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.7 | 0.1 U | 0.1 U | 0.1 U |
| PCB-066 | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.9 | 0.05 U | 0.05 U | 0.05 U |
| PCB-070 | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.3 | 0.05 U | 0.05 U | 1.3 | 0.05 U | 0.05 U | 0.05 U |
| PCB-074 | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.6 | 0.05 U | 0.05 U | 0.05 U |
| PCB-077 | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| PCB-081 | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| PCB-087 | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.4 | 0.05 U | 0.05 U | 1.3 | 0.05 U | 0.05 U | 0.05 U |
| PCB-095 | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.6 | 0.05 U | 0.05 U | 1.5 | 0.1 | 0.05 U | 0.05 U |
| PCB-097 | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| PCB-099 | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.4 | 0.05 U | 0.05 U | 1.4 | 0.05 U | 0.05 U | 0.05 U |
| PCB-101 | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 1 | 0.05 U | 0.05 U | 2.9 | 0.05 U | 0.05 U | 0.05 U |
| PCB-105 | SW8270C | -- | -- | 0.1 | 0.05 U | 0.05 U | 0.3 | 0.05 U | 0.05 U | 1.1 | 0.05 U | 0.05 U | 0.05 U |
| PCB-110 | SW8270C | -- | -- | 0.2 | 0.05 U | 0.05 U | 0.8 | 0.05 U | 0.05 U | 2.8 | 0.2 | 0.05 U | 0.05 U |
| PCB-114 | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| PCB-118 | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.7 | 0.05 U | 0.05 U | 3.1 | 0.2 | 0.05 U | 0.05 U |
| PCB-119 | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| PCB-123 | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| PCB-126 | SW8270C | -- | -- | 1.2 | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| PCB-128 | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.5 | 0.05 U | 0.05 U | 0.05 U |
| PCB-132/168 | SW8270C | -- | -- | 0.1 U | 0.1 U | 0.1 U | 0.3 | 0.1 U | 0.1 U | 0.9 | 0.1 J | 0.1 U | 0.1 U |
| PCB-137 | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.6 | 0.05 U | 0.05 U | 0.05 U |

**Table 18
2013 Sediment Chemistry Results**

| FINAL VALIDATED DATA | | | | Task | 2013_BightSeds | 2013_BightSeds | 2013_BightSeds | 2013_BightSeds | 2013_BightSeds | 2013_BightSeds | 2013_BightSeds | 2013_BightSeds | 2013_BightSeds | |
|-----------------------------|-------------|------------------------|------------------------|--------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------|
| Area | Location ID | Sample ID | Sample Date | Area | Inner Harbor - LB | Inner Harbor - LB | Inner Harbor - LB | Inner Harbor - LB | Inner Harbor - LB | Inner Harbor - LB | Inner Harbor - LB | Outer Harbor - LB | Outer Harbor - LB | |
| Method | Method | Sediment Target (ER-L) | Fish Tissue Associated | Matrix | Inner Harbor - LB | Inner Harbor - LB | Inner Harbor - LB | Inner Harbor - LB | Inner Harbor - LB | Inner Harbor - LB | Inner Harbor - LB | Outer Harbor - LB | Outer Harbor - LB | |
| | | | | X | Inner Harbor - LB | Inner Harbor - LB | Inner Harbor - LB | Inner Harbor - LB | Inner Harbor - LB | Inner Harbor - LB | Inner Harbor - LB | Outer Harbor - LB | Outer Harbor - LB | |
| | | | | Y | Inner Harbor - LB | Inner Harbor - LB | Inner Harbor - LB | Inner Harbor - LB | Inner Harbor - LB | Inner Harbor - LB | Inner Harbor - LB | Outer Harbor - LB | Outer Harbor - LB | |
| PCB-138 | SW8270C | -- | -- | | 0.5 | 0.05 U | 0.05 U | 0.9 | 0.05 U | 0.05 U | 6.3 | 1 | 0.05 U | 0.05 U |
| PCB-141 | SW8270C | -- | -- | | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.6 | 0.05 U | 0.05 U | 0.05 U |
| PCB-149 | SW8270C | -- | -- | | 0.05 U | 0.05 U | 0.05 U | 0.6 | 0.05 U | 0.05 U | 1.8 | 0.2 | 0.05 U | 0.05 U |
| PCB-151 | SW8270C | -- | -- | | 0.05 U | 0.05 U | 0.05 U | 0.2 | 0.05 U | 0.05 U | 0.4 | 0.05 U | 0.05 U | 0.05 U |
| PCB-153 | SW8270C | -- | -- | | 0.1 | 0.05 U | 0.05 U | 0.8 | 0.05 U | 0.05 U | 2.8 | 0.3 | 0.05 U | 0.05 U |
| PCB-156 | SW8270C | -- | -- | | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 2.5 | 0.05 U | 0.05 U | 0.05 U |
| PCB-157 | SW8270C | -- | -- | | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| PCB-158 | SW8270C | -- | -- | | 0.1 | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.4 | 0.3 | 0.05 U | 0.05 U |
| PCB-167 | SW8270C | -- | -- | | 0.2 | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.3 | 0.05 U | 0.05 U |
| PCB-169 | SW8270C | -- | -- | | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| PCB-170 | SW8270C | -- | -- | | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| PCB-174 | SW8270C | -- | -- | | 0.05 U | 0.05 U | 0.05 U | 0.4 | 0.05 U | 0.05 U | 1.5 | 0.05 U | 0.05 U | 0.05 U |
| PCB-177 | SW8270C | -- | -- | | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 1 | 0.05 U | 0.05 U | 0.05 U |
| PCB-180 | SW8270C | -- | -- | | 0.05 U | 0.05 U | 0.05 U | 0.8 | 0.05 U | 0.05 U | 5.3 | 0.4 | 0.05 U | 0.05 U |
| PCB-183 | SW8270C | -- | -- | | 0.05 U | 0.05 U | 0.05 U | 0.2 | 0.05 U | 0.05 U | 0.4 | 0.05 U | 0.05 U | 0.05 U |
| PCB-187 | SW8270C | -- | -- | | 0.05 U | 0.05 U | 0.05 U | 0.3 | 0.05 U | 0.05 U | 0.8 | 0.05 U | 0.05 U | 0.05 U |
| PCB-189 | SW8270C | -- | -- | | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| PCB-194 | SW8270C | -- | -- | | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| PCB-195 | SW8270C | -- | -- | | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| PCB-199 | SW8270C | -- | -- | | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U |
| PCB-201 | SW8270C | -- | -- | | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| PCB-203 | SW8270C | -- | -- | | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| PCB-206 | SW8270C | -- | -- | | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| PCB-209 | SW8270C | -- | -- | | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| Total PCB congener (U = 0) | -- | 22.7 | 3.2 | | 2.4 | 0.05 U | 0.05 U | 9.6 | 0.05 U | 0.05 U | 46.3 | 3.1 J | 0.05 U | 0.05 U |

Table 18
2013 Sediment Chemistry Results

| FINAL VALIDATED DATA | | | | Task | 2013_BightSeds | 2013_BightSeds | 2013_BightSeds | 2013_BightSeds | 2013_BightSeds | 2013_BightSeds | 2013_BightSeds | 2013_BightSeds | 2013_BightSeds |
|---|---------|------|----|------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|----------------|-------------------|-------------------|
| | | | | Area | Outer Harbor - LB | Outer Harbor - LB | Outer Harbor - LB | Outer Harbor - LB | Outer Harbor - LB | Outer Harbor - LB | Cabrillo Beach | Inner Harbor - LA | Inner Harbor - LA |
| | | | | Location ID | B13-8322 | B13-8326 | B13-8333 | B13-8347 | B13-8349 | B13-8360 | B13-8306 | B13-8316 | B13-8340 |
| | | | | Sample ID | B13-8322 | B13-8326 | B13-8333 | B13-8347 | B13-8349 | B13-8360 | B13-8306 | B13-8316 | B13-8340 |
| | | | | Sample Date | 7/13/2013 | 7/10/2013 | 7/13/2013 | 7/12/2013 | 7/10/2013 | 7/10/2013 | 7/11/2013 | 7/11/2013 | 7/12/2013 |
| | | | | Depth Interval | 0 - 5 cm | 0 - 5 cm | 0 - 5 cm | 0 - 5 cm | 0 - 5 cm | 0 - 5 cm | 0 - 5 cm | 0 - 5 cm | 0 - 5 cm |
| | | | | Sample Type | N | N | N | N | N | N | N | N | N |
| | | | | Matrix | SE | SE | SE | SE | SE | SE | SE | SE | SE |
| | | | | X | -118.21274 | -118.23361 | -118.1924 | -118.21039 | -118.23651 | -118.2157 | -118.28269 | -118.2627 | -118.27676 |
| | | | | Y | 33.72762 | 33.72924 | 33.7311 | 33.73891 | 33.73906 | 33.74553 | 33.71475 | 33.72387 | 33.73549 |
| | | | | Fish Tissue Associated | | | | | | | | | |
| | | | | Sediment Target (ER-L) | | | | | | | | | |
| | | | | Method | | | | | | | | | |
| Conventional Parameters (pct) | | | | | | | | | | | | | |
| Total organic carbon | SW9060 | -- | -- | 1.51 | 1.11 | 1.70 | 1.65 | 1.49 | 0.82 | 1.90 | 1.79 | 1.35 | |
| Total suspended solids | SM2540B | -- | -- | 49.2 | 61.3 | 68.7 | 49.2 | 45.4 | 70.5 | 53.3 | 46.5 | 51.2 | |
| Metals (mg/kg) | | | | | | | | | | | | | |
| Cadmium | SW6020 | 1.2 | -- | 0.461 J | 0.304 | 0.234 | 0.467 J | 0.573 | 0.190 | 1.14 | 0.592 | 0.550 J | |
| Chromium | SW6020 | 81 | -- | 73.0 J | 42.8 J | 34.9 J | 71.6 J | 78.9 J | 34.1 J | 59.9 J | 76.6 J | 71.2 J | |
| Copper | SW6020 | 34 | -- | 55.3 | 34.9 | 19.7 | 54.3 | 96.6 | 29.0 | 80.4 | 65.1 | 81.8 | |
| Lead | SW6020 | 46.7 | -- | 30.8 | 16.0 | 15.1 | 29.6 | 36.4 | 15.3 | 22.4 | 22.0 | 30.1 | |
| Mercury | E245.7 | 0.15 | -- | 0.223 | 0.157 | 0.0830 | 0.196 | 0.414 | 0.157 | 0.324 | 0.219 | 0.335 | |
| Zinc | SW6020 | 150 | -- | 145 J | 101 | 71.85 | 141 J | 172 | 79.4 | 194 | 142 | 153 J | |
| Semivolatile Organics (µg/kg) | | | | | | | | | | | | | |
| 1-Methylnaphthalene | SW8270C | -- | -- | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | |
| 2-Methylnaphthalene | SW8270C | 70 | -- | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | |
| Acenaphthene | SW8270C | 16 | -- | 1.1 J | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | |
| Acenaphthylene | SW8270C | 44 | -- | 1 J | 1 U | 1.8 J | 1 U | 1 U | 1 U | 1 U | 1 U | 2.1 J | |
| Anthracene | SW8270C | 85.3 | -- | 1.5 J | 4 J | 3.1 J | 3.5 J | 2.1 J | 2.1 J | 2 J | 1.1 J | 8.7 | |
| Benzo(a)anthracene | SW8270C | 261 | -- | 2.2 J | 5.6 | 6.3 | 7 | 3.3 J | 1.8 J | 2.5 J | 2.1 J | 10.7 | |
| Benzo(a)pyrene | SW8270C | 430 | -- | 6.1 | 9.2 | 5.1 | 18.3 | 9 | 6.8 | 7.1 | 2.5 J | 20.7 | |
| Benzo(b)fluoranthene | SW8270C | -- | -- | 3.8 J | 7.3 | 2.4 J | 16.1 | 6.6 | 4.8 J | 6.4 | 1.9 J | 18.7 | |
| Benzo(g,h,i)perylene | SW8270C | -- | -- | 3 J | 3.6 J | 4.5 J | 7.6 | 3.8 J | 1.8 J | 4.1 J | 2 J | 8.9 | |
| Benzo(k)fluoranthene | SW8270C | -- | -- | 1.9 J | 4.1 J | 1.6 J | 7.4 | 3.3 J | 2.1 J | 2.6 J | 1 J | 9.3 | |
| Biphenyl (1,1'-Biphenyl) | SW8270C | -- | -- | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | |
| Chrysene | SW8270C | 384 | -- | 3.1 J | 7.9 | 5.1 | 9.9 | 4.2 J | 3 J | 3.8 J | 2.8 J | 16.8 | |
| Dibenzo(a,h)anthracene | SW8270C | 63.4 | -- | 1 U | 2.9 J | 1.1 J | 7 | 3.1 J | 1 U | 1 U | 1 U | 5 | |
| Fluoranthene | SW8270C | 600 | -- | 3 J | 2.6 J | 12.6 | 2.9 J | 4.8 J | 2.2 J | 5.7 | 3.8 J | 17.9 | |
| Fluorene | SW8270C | 19 | -- | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 J | |
| Hexachlorobenzene | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | |
| Indeno(1,2,3-c,d)pyrene | SW8270C | -- | -- | 4.8 J | 4.8 J | 5.6 | 14.6 | 7.7 | 3.2 J | 6.4 | 2.4 J | 12.9 | |
| Naphthalene | SW8270C | 160 | -- | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1.3 J | |
| Phenanthrene | SW8270C | 240 | -- | 1.5 J | 1.3 J | 1.9 J | 1.8 J | 1.8 J | 1 U | 1.3 J | 1.5 J | 3.4 J | |
| Pyrene | SW8270C | 665 | -- | 3.8 J | 2.2 J | 15.4 | 3.5 J | 4.5 J | 2.1 J | 4.6 J | 3.4 J | 14.2 | |
| Total HPAH (9 of 17) (U = 0) | -- | 1700 | -- | 31.7 J | 50.2 J | 59.7 J | 94.3 J | 50.3 J | 27.8 J | 43.2 J | 21.9 J | 135.1 | |
| Total LPAH (8 of 17) (U = 0) | -- | 552 | -- | 5.1 J | 5.3 J | 6.8 J | 5.3 J | 3.9 J | 2.1 J | 3.3 J | 2.6 J | 16.5 J | |
| Total PAH (17) (U = 0) | -- | 4022 | -- | 36.8 J | 55.5 J | 66.5 J | 99.6 J | 54.2 J | 29.9 J | 46.5 J | 24.5 J | 151.6 J | |
| Polycyclic Aromatic Hydrocarbons (µg/kg) | | | | | | | | | | | | | |
| 1-Methylphenanthrene | SW8270C | -- | -- | 1.2 J | 1.1 J | 1 U | 1 U | 1.1 J | 1 U | 1 U | 1 U | 1.2 J | |
| 2,3,5-Trimethylnaphthalene (1,6,7-Trimethylnaphthalene) | SW8270C | -- | -- | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | |

Table 18
2013 Sediment Chemistry Results

| FINAL VALIDATED DATA | | | | Task | 2013_BightSeds | 2013_BightSeds | 2013_BightSeds | 2013_BightSeds | 2013_BightSeds | 2013_BightSeds | 2013_BightSeds | 2013_BightSeds | 2013_BightSeds |
|---|------------------------|---|-----|------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|----------------|-------------------|-------------------|
| | | | | Area | Outer Harbor - LB | Outer Harbor - LB | Outer Harbor - LB | Outer Harbor - LB | Outer Harbor - LB | Outer Harbor - LB | Cabrillo Beach | Inner Harbor - LA | Inner Harbor - LA |
| | | | | Location ID | B13-8322 | B13-8326 | B13-8333 | B13-8347 | B13-8349 | B13-8360 | B13-8306 | B13-8316 | B13-8340 |
| | | | | Sample ID | B13-8322 | B13-8326 | B13-8333 | B13-8347 | B13-8349 | B13-8360 | B13-8306 | B13-8316 | B13-8340 |
| | | | | Sample Date | 7/13/2013 | 7/10/2013 | 7/13/2013 | 7/12/2013 | 7/10/2013 | 7/10/2013 | 7/11/2013 | 7/11/2013 | 7/12/2013 |
| | | | | Depth Interval | 0 - 5 cm | 0 - 5 cm | 0 - 5 cm | 0 - 5 cm | 0 - 5 cm | 0 - 5 cm | 0 - 5 cm | 0 - 5 cm | 0 - 5 cm |
| | | | | Sample Type | N | N | N | N | N | N | N | N | N |
| | | | | Matrix | SE | SE | SE | SE | SE | SE | SE | SE | SE |
| | | | | X | -118.21274 | -118.23361 | -118.1924 | -118.21039 | -118.23651 | -118.2157 | -118.28269 | -118.2627 | -118.27676 |
| | | | | Y | 33.72762 | 33.72924 | 33.7311 | 33.73891 | 33.73906 | 33.74553 | 33.71475 | 33.72387 | 33.73549 |
| | | | | Fish Tissue Associated | | | | | | | | | |
| Method | Sediment Target (ER-L) | Fish Tissue Associated Sediment Targets | | | | | | | | | | | |
| 2,6-Dimethylnaphthalene | SW8270C | -- | -- | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 J |
| Benzo(e)pyrene | SW8270C | -- | -- | 1.9 J | 3.1 J | 2.3 J | 6.7 | 3.2 J | 2.5 J | 3.5 J | 1.6 J | 9.2 | |
| Dibenzothiophene | SW8270C | -- | -- | 1 U | 1 J | 1 U | 1 U | 1.1 J | 1 U | 1 U | 1 U | 1 U | |
| Perylene | SW8270C | -- | -- | 3.7 J | 6.9 | 3.2 J | 10.3 | 7.6 | 3.6 J | 30.4 | 3.5 J | 12.4 | |
| Pesticides (µg/kg) | | | | | | | | | | | | | |
| 2,4'-DDD (o,p'-DDD) | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| 2,4'-DDE (o,p'-DDE) | SW8270C | -- | -- | 0.05 U | 0.2 | 0.2 | 0.05 U | 0.4 | 0.05 U | 0.5 | 0.4 | 0.05 U | |
| 2,4'-DDT (o,p'-DDT) | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| 4,4'-DDD (p,p'-DDD) | SW8270C | 2 | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.2 | 0.05 U |
| 4,4'-DDE (p,p'-DDE) | SW8270C | 2.2 | -- | 1.2 | 0.9 | 1.3 | 1.1 | 1.1 | 0.8 | 1.7 | 2.4 | 1.4 | |
| 4,4'-DDT (p,p'-DDT) | SW8270C | 1 | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| Aldrin | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| Chlordane, alpha- (Chlordane, cis-) | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| Chlordane, gamma- | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| Dacthal | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| Dicofol | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| Dieldrin | SW8270C | 0.02 | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| Endosulfan sulfate | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| Endosulfan, alpha- (I) | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| Endosulfan, beta (II) | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| Endrin | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| Endrin aldehyde | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| Endrin ketone | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| Heptachlor | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| Heptachlor epoxide | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| Hexachlorocyclohexane (BHC), alpha- | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| Hexachlorocyclohexane (BHC), beta- | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| Hexachlorocyclohexane (BHC), delta- | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| Hexachlorocyclohexane (BHC), gamma- (Lindane) | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| Methoxychlor | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| Mirex | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| Nonachlor, cis- | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| Nonachlor, trans- | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| Oxychlordane | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| p,p'-DDMU | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.5 | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.7 | 0.05 U | |
| Perthane | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| Toxaphene | SW8270CM | -- | 0.1 | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U |

Table 18
2013 Sediment Chemistry Results

| FINAL VALIDATED DATA | | | | Task | 2013_BightSeds | 2013_BightSeds | 2013_BightSeds | 2013_BightSeds | 2013_BightSeds | 2013_BightSeds | 2013_BightSeds | 2013_BightSeds | 2013_BightSeds |
|------------------------------|---------|----|------|------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|----------------|-------------------|-------------------|
| | | | | Area | Outer Harbor - LB | Outer Harbor - LB | Outer Harbor - LB | Outer Harbor - LB | Outer Harbor - LB | Outer Harbor - LB | Cabrillo Beach | Inner Harbor - LA | Inner Harbor - LA |
| | | | | Location ID | B13-8322 | B13-8326 | B13-8333 | B13-8347 | B13-8349 | B13-8360 | B13-8306 | B13-8316 | B13-8340 |
| | | | | Sample ID | B13-8322 | B13-8326 | B13-8333 | B13-8347 | B13-8349 | B13-8360 | B13-8306 | B13-8316 | B13-8340 |
| | | | | Sample Date | 7/13/2013 | 7/10/2013 | 7/13/2013 | 7/12/2013 | 7/10/2013 | 7/10/2013 | 7/11/2013 | 7/11/2013 | 7/12/2013 |
| | | | | Depth Interval | 0 - 5 cm | 0 - 5 cm | 0 - 5 cm | 0 - 5 cm | 0 - 5 cm | 0 - 5 cm | 0 - 5 cm | 0 - 5 cm | 0 - 5 cm |
| | | | | Sample Type | N | N | N | N | N | N | N | N | N |
| | | | | Matrix | SE | SE | SE | SE | SE | SE | SE | SE | SE |
| | | | | X | -118.21274 | -118.23361 | -118.1924 | -118.21039 | -118.23651 | -118.2157 | -118.28269 | -118.2627 | -118.27676 |
| | | | | Y | 33.72762 | 33.72924 | 33.7311 | 33.73891 | 33.73906 | 33.74553 | 33.71475 | 33.72387 | 33.73549 |
| | | | | Fish Tissue Associated | | | | | | | | | |
| | | | | Sediment Target (ER-L) | | | | | | | | | |
| | | | | Method | | | | | | | | | |
| Total chlordane (U = 0) | | -- | 0.5 | 1.3 | 0.025 U | 0.025 U | 0.025 U | 0.025 U | 0.025 U | 0.025 U | 0.025 U | 0.025 U | 0.025 U |
| Total DDX (U = 0) | | -- | 1.58 | 1.9 | 1.2 | 1.1 | 1.5 | 1.1 | 1.5 | 0.8 | 2.2 | 3.0 | 1.4 |
| PCB Congeners (µg/kg) | | | | | | | | | | | | | |
| PCB-003 | SW8270C | -- | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| PCB-005 | SW8270C | -- | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| PCB-008 | SW8270C | -- | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| PCB-015 | SW8270C | -- | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| PCB-018 | SW8270C | -- | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| PCB-027 | SW8270C | -- | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| PCB-028 | SW8270C | -- | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| PCB-029 | SW8270C | -- | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| PCB-031 | SW8270C | -- | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| PCB-033 | SW8270C | -- | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| PCB-037 | SW8270C | -- | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| PCB-044 | SW8270C | -- | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| PCB-049 | SW8270C | -- | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| PCB-052 | SW8270C | -- | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| PCB-056/060 | SW8270C | -- | -- | -- | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U |
| PCB-066 | SW8270C | -- | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| PCB-070 | SW8270C | -- | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| PCB-074 | SW8270C | -- | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| PCB-077 | SW8270C | -- | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| PCB-081 | SW8270C | -- | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| PCB-087 | SW8270C | -- | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.3 | 0.05 U |
| PCB-095 | SW8270C | -- | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| PCB-097 | SW8270C | -- | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| PCB-099 | SW8270C | -- | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| PCB-101 | SW8270C | -- | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| PCB-105 | SW8270C | -- | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| PCB-110 | SW8270C | -- | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| PCB-114 | SW8270C | -- | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| PCB-118 | SW8270C | -- | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| PCB-119 | SW8270C | -- | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| PCB-123 | SW8270C | -- | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| PCB-126 | SW8270C | -- | -- | -- | 0.05 U | 0.05 U | 0.7 | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 2 | 0.05 U |
| PCB-128 | SW8270C | -- | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| PCB-132/168 | SW8270C | -- | -- | -- | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U |
| PCB-137 | SW8270C | -- | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |

Table 18
2013 Sediment Chemistry Results

| FINAL VALIDATED DATA | | | | Task | 2013_BightSeds | 2013_BightSeds | 2013_BightSeds | 2013_BightSeds | 2013_BightSeds | 2013_BightSeds | 2013_BightSeds | 2013_BightSeds | 2013_BightSeds |
|-----------------------------|---------|------|-----|------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|----------------|-------------------|-------------------|
| | | | | Area | Outer Harbor - LB | Outer Harbor - LB | Outer Harbor - LB | Outer Harbor - LB | Outer Harbor - LB | Outer Harbor - LB | Cabrillo Beach | Inner Harbor - LA | Inner Harbor - LA |
| | | | | Location ID | B13-8322 | B13-8326 | B13-8333 | B13-8347 | B13-8349 | B13-8360 | B13-8306 | B13-8316 | B13-8340 |
| | | | | Sample ID | B13-8322 | B13-8326 | B13-8333 | B13-8347 | B13-8349 | B13-8360 | B13-8306 | B13-8316 | B13-8340 |
| | | | | Sample Date | 7/13/2013 | 7/10/2013 | 7/13/2013 | 7/12/2013 | 7/10/2013 | 7/10/2013 | 7/11/2013 | 7/11/2013 | 7/12/2013 |
| | | | | Depth Interval | 0 - 5 cm | 0 - 5 cm | 0 - 5 cm | 0 - 5 cm | 0 - 5 cm | 0 - 5 cm | 0 - 5 cm | 0 - 5 cm | 0 - 5 cm |
| | | | | Sample Type | N | N | N | N | N | N | N | N | N |
| | | | | Matrix | SE | SE | SE | SE | SE | SE | SE | SE | SE |
| | | | | X | -118.21274 | -118.23361 | -118.1924 | -118.21039 | -118.23651 | -118.2157 | -118.28269 | -118.2627 | -118.27676 |
| | | | | Y | 33.72762 | 33.72924 | 33.7311 | 33.73891 | 33.73906 | 33.74553 | 33.71475 | 33.72387 | 33.73549 |
| | | | | Fish Tissue Associated | | | | | | | | | |
| | | | | Sediment Target (ER-L) | | | | | | | | | |
| | | | | Method | | | | | | | | | |
| PCB-138 | SW8270C | -- | -- | | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| PCB-141 | SW8270C | -- | -- | | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| PCB-149 | SW8270C | -- | -- | | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| PCB-151 | SW8270C | -- | -- | | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| PCB-153 | SW8270C | -- | -- | | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| PCB-156 | SW8270C | -- | -- | | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| PCB-157 | SW8270C | -- | -- | | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| PCB-158 | SW8270C | -- | -- | | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| PCB-167 | SW8270C | -- | -- | | 0.05 U | 0.05 U | 0.2 | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| PCB-169 | SW8270C | -- | -- | | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| PCB-170 | SW8270C | -- | -- | | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| PCB-174 | SW8270C | -- | -- | | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| PCB-177 | SW8270C | -- | -- | | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| PCB-180 | SW8270C | -- | -- | | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| PCB-183 | SW8270C | -- | -- | | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| PCB-187 | SW8270C | -- | -- | | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| PCB-189 | SW8270C | -- | -- | | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| PCB-194 | SW8270C | -- | -- | | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| PCB-195 | SW8270C | -- | -- | | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| PCB-199 | SW8270C | -- | -- | | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U |
| PCB-201 | SW8270C | -- | -- | | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| PCB-203 | SW8270C | -- | -- | | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| PCB-206 | SW8270C | -- | -- | | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| PCB-209 | SW8270C | -- | -- | | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| Total PCB congener (U = 0) | -- | 22.7 | 3.2 | | 0.05 U | 0.05 U | 0.9 | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 2.7 | 0.05 U |

Table 18
2013 Sediment Chemistry Results

| FINAL VALIDATED DATA | | | | | | | | | | | | |
|---|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|-------------------------------------|-------------------------------------|----------|
| Task Area | 2013_BightSeds Inner Harbor - LA | 2013_BightSeds Inner Harbor - LA | 2013_BightSeds Inner Harbor - LA | 2013_BightSeds Inner Harbor - LA | 2013_BightSeds Outer Harbor - LA | 2013_BightSeds Outer Harbor - LA | 2013_BightSeds Outer Harbor - LA | 2013_BightSeds Outer Harbor - LA | 2013_BightSeds Outer Harbor - LA | 2013_BightSeds Fish Harbor TMDL2-FH | 2013_BightSeds Fish Harbor TMDL5-DT | |
| Location ID | B13-8367 | B13-8384 | B13-8396 | B13-8397 | B13-8302 | B13-8304 | B13-8308 | TMDL2-FH | TMDL2-FH | | | |
| Sample ID | B13-8367 | B13-8384 | B13-8396 | B13-8397 | B13-8302 | B13-8304 | B13-8308 | TMDL2-FH | TMDL2-FH | TMDL5-DT | | |
| Sample Date | 7/11/2013 | 7/12/2013 | 7/12/2013 | 7/12/2013 | 7/11/2013 | 7/11/2013 | 7/11/2013 | 7/11/2013 | 7/11/2013 | 7/11/2013 | 7/11/2013 | |
| Depth Interval | 0 - 5 cm | 0 - 5 cm | 0 - 5 cm | 0 - 5 cm | 0 - 5 cm | 0 - 5 cm | 0 - 5 cm | 0 - 5 cm | 0 - 5 cm | 0 - 5 cm | 0 - 5 cm | |
| Sample Type | N | N | N | N | N | N | N | N | N | N | FD | |
| Matrix | SE | SE | SE | SE | SE | SE | SE | SE | SE | SE | SE | |
| X | -118.2489 | -118.27742 | -118.27747 | -118.24938 | -118.2579 | -118.24131 | -118.24385 | -118.2665833 | -118.2665833 | -118.2665833 | -118.2665833 | |
| Y | 33.74853 | 33.75686 | 33.7662 | 33.767 | 33.71242 | 33.71345 | 33.7174 | 33.73452667 | 33.73452667 | 33.73452667 | 33.73452667 | |
| Method | | | | | | | | | | | | |
| Sediment Target (ER-L) | | | | | | | | | | | | |
| Fish Tissue Associated Sediment Targets | | | | | | | | | | | | |
| Conventional Parameters (pct) | | | | | | | | | | | | |
| Total organic carbon | SW9060 | -- | -- | 0.53 | 2.21 | 1.67 | 2.39 | 1.51 | 2.15 | 1.79 | 1.93 | 3.19 |
| Total suspended solids | SM2540B | -- | -- | 67.2 | 50.3 | 53.5 | 35.9 | 44.6 | 50.0 | 54.0 | 42.3 | 33.3 |
| Metals (mg/kg) | | | | | | | | | | | | |
| Cadmium | SW6020 | 1.2 | -- | 0.0933 | 0.414 | 0.292 J | 0.528 J | 0.855 | 0.731 | 0.729 | 1.27 | 1.16 |
| Chromium | SW6020 | 81 | -- | 21.0 J | 71.9 J | 64.9 J | 158 J | 79.7 J | 69.9 J | 67.2 J | 125 J | 122 J |
| Copper | SW6020 | 34 | -- | 12.4 | 92.6 | 71.7 | 259 | 62.3 | 49.4 | 50.5 | 726 | 708 |
| Lead | SW6020 | 46.7 | -- | 4.63 | 33.8 | 32.8 | 144 | 22.4 | 19.4 | 18.2 | 129 | 125 |
| Mercury | E245.7 | 0.15 | -- | 0.0340 | 0.403 | 0.293 | 0.909 | 0.227 | 0.181 | 0.167 | 2.43 | 2.75 |
| Zinc | SW6020 | 150 | -- | 53.8 | 168 | 145 J | 364 J | 142 | 125 | 124 | 628 | 550 |
| Semivolatile Organics (µg/kg) | | | | | | | | | | | | |
| 1-Methylnaphthalene | SW8270C | -- | -- | 1 U | 1 U | 1 U | 2 J | 1 U | 1 U | 1 U | 1.4 J | 1.7 J |
| 2-Methylnaphthalene | SW8270C | 70 | -- | 1 U | 1 U | 1 U | 3.9 J | 1 U | 1 U | 1 U | 2.1 J | 2.3 J |
| Acenaphthene | SW8270C | 16 | -- | 1 U | 1 UJ | 1.1 J | 1.8 J | 1 U | 1 U | 1 U | 2.2 J | 2.1 J |
| Acenaphthylene | SW8270C | 44 | -- | 2.2 J | 1.7 J | 2.9 J | 7.6 | 1 U | 1 U | 1 U | 16.3 | 17.1 |
| Anthracene | SW8270C | 85.3 | -- | 4.8 J | 8.3 | 15.3 | 27.7 | 2.1 J | 1.3 J | 1.3 J | 71.1 | 57.5 |
| Benzo(a)anthracene | SW8270C | 261 | -- | 24.4 | 7.9 | 20.5 | 44.3 J | 1.7 J | 2.7 J | 2.4 J | 132.7 | 120.1 |
| Benzo(a)pyrene | SW8270C | 430 | -- | 51.5 | 9.6 | 42.6 | 117.5 J | 5.7 | 9 | 6.5 | 148.6 | 155.4 |
| Benzo(b)fluoranthene | SW8270C | -- | -- | 30.6 | 9 | 40.8 | 107.9 J | 4.4 J | 5.9 | 3.8 J | 109.1 | 100.8 |
| Benzo(g,h,i)perylene | SW8270C | -- | -- | 21.7 | 7.5 | 15.5 | 56.9 | 2.8 J | 2.9 J | 3.4 J | 67 | 76.3 |
| Benzo(k)fluoranthene | SW8270C | -- | -- | 21.6 | 5.2 | 21.8 | 63.4 J | 1.4 J | 2.5 J | 2.9 J | 66.7 | 63.3 |
| Biphenyl (1,1'-Biphenyl) | SW8270C | -- | -- | 1 U | 1 U | 1 U | 1 J | 1 U | 1 U | 1 U | 1 U | 1 U |
| Chrysene | SW8270C | 384 | -- | 24.2 | 12.9 | 35.5 | 76.3 J | 2.8 J | 4 J | 3.1 J | 156 | 117.7 |
| Dibenzo(a,h)anthracene | SW8270C | 63.4 | -- | 10 | 3.2 J | 9.6 | 27.9 | 1 U | 1 U | 1 U | 29.4 | 32.1 |
| Fluoranthene | SW8270C | 600 | -- | 16.8 | 8.7 | 13.8 | 53.4 J | 3.7 J | 4.6 J | 3.1 J | 185.5 | 188.5 |
| Fluorene | SW8270C | 19 | -- | 1 U | 1 U | 1.1 J | 2 J | 1 U | 1 U | 1 U | 5.5 | 6.3 |
| Hexachlorobenzene | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| Indeno(1,2,3-c,d)pyrene | SW8270C | -- | -- | 34.6 | 12.7 | 27.9 | 74.8 J | 5 | 4.5 J | 4.6 J | 118.8 | 133.2 |
| Naphthalene | SW8270C | 160 | -- | 1.8 J | 1 U | 1.3 J | 4.2 J | 1 U | 1 U | 1 U | 3.2 J | 5.6 |
| Phenanthrene | SW8270C | 240 | -- | 1.8 J | 2.7 J | 5.5 | 18 | 1.6 J | 1.1 J | 1.3 J | 55.1 | 70.4 |
| Pyrene | SW8270C | 665 | -- | 22.9 | 6.7 | 12.4 | 61.5 J | 3.4 J | 4.2 J | 3.3 J | 209.5 | 235.9 |
| Total HPAH (9 of 17) (U = 0) | -- | 1700 | -- | 258.3 | 83.4 J | 240.4 | 683.9 J | 30.9 J | 40.3 J | 33.1 J | 1223.3 | 1223.3 |
| Total LPAH (8 of 17) (U = 0) | -- | 552 | -- | 10.6 J | 12.7 J | 27.2 J | 66.2 J | 3.7 J | 2.4 J | 2.6 J | 155.5 J | 161.3 J |
| Total PAH (17) (U = 0) | -- | 4022 | -- | 268.9 J | 96.1 J | 267.6 J | 750.1 J | 34.6 J | 42.7 J | 35.7 J | 1378.8 J | 1384.6 J |
| Polycyclic Aromatic Hydrocarbons (µg/kg) | | | | | | | | | | | | |
| 1-Methylphenanthrene | SW8270C | -- | -- | 1.5 J | 1 U | 1.8 J | 4 J | 1 U | 1 U | 1 U | 21.3 | 22.7 |
| 2,3,5-Trimethylnaphthalene (1,6,7-Trimethylnaphthalene) | SW8270C | -- | -- | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1.3 J | 2.2 J |

Table 18
2013 Sediment Chemistry Results

| FINAL VALIDATED DATA | | | | | | | | | | | | |
|---|----------------------------------|---|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|-------------------------------------|-------------------------------------|--------|
| Task Area | 2013_BightSeds Inner Harbor - LA | 2013_BightSeds Inner Harbor - LA | 2013_BightSeds Inner Harbor - LA | 2013_BightSeds Inner Harbor - LA | 2013_BightSeds Outer Harbor - LA | 2013_BightSeds Outer Harbor - LA | 2013_BightSeds Outer Harbor - LA | 2013_BightSeds Outer Harbor - LA | 2013_BightSeds Outer Harbor - LA | 2013_BightSeds Fish Harbor TMDL2-FH | 2013_BightSeds Fish Harbor TMDL2-FH | |
| Location ID | B13-8367 | B13-8384 | B13-8396 | B13-8397 | B13-8302 | B13-8304 | B13-8308 | TMDL2-FH | TMDL2-FH | TMDL2-FH | TMDL5-DT | |
| Sample ID | B13-8367 | B13-8384 | B13-8396 | B13-8397 | B13-8302 | B13-8304 | B13-8308 | TMDL2-FH | TMDL2-FH | TMDL2-FH | TMDL5-DT | |
| Sample Date | 7/11/2013 | 7/12/2013 | 7/12/2013 | 7/12/2013 | 7/11/2013 | 7/11/2013 | 7/11/2013 | 7/11/2013 | 7/11/2013 | 7/11/2013 | 7/11/2013 | |
| Depth Interval | 0 - 5 cm | 0 - 5 cm | 0 - 5 cm | 0 - 5 cm | 0 - 5 cm | 0 - 5 cm | 0 - 5 cm | 0 - 5 cm | 0 - 5 cm | 0 - 5 cm | 0 - 5 cm | |
| Sample Type | N | N | N | N | N | N | N | N | N | N | FD | |
| Matrix | SE | SE | SE | SE | SE | SE | SE | SE | SE | SE | SE | |
| X | -118.2489 | -118.27742 | -118.27747 | -118.24938 | -118.2579 | -118.24131 | -118.24385 | -118.2665833 | -118.2665833 | -118.2665833 | -118.2665833 | |
| Y | 33.74853 | 33.75686 | 33.7662 | 33.767 | 33.71242 | 33.71345 | 33.7174 | 33.73452667 | 33.73452667 | 33.73452667 | 33.73452667 | |
| Method | Sediment Target (ER-L) | Fish Tissue Associated Sediment Targets | | | | | | | | | | |
| 2,6-Dimethylnaphthalene | SW8270C | -- | -- | 1 U | 1 U | 1 U | 2.3 J | 1 U | 1 U | 1.1 J | 1.3 J | 1.6 J |
| Benzo(e)pyrene | SW8270C | -- | -- | 19.3 | 5.9 | 19.3 | 77.5 J | 2.5 J | 3.2 J | 2.5 J | 74.4 | 74.3 |
| Dibenzothiophene | SW8270C | -- | -- | 1 U | 1 U | 1 U | 2.1 J | 1 U | 1 U | 1 U | 3.6 J | 4.1 J |
| Perylene | SW8270C | -- | -- | 18.5 | 8.1 | 14.2 | 31.9 | 11.4 | 10.3 | 14.8 | 46.6 | 52.6 |
| Pesticides (µg/kg) | | | | | | | | | | | | |
| 2,4'-DDD (o,p'-DDD) | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| 2,4'-DDE (o,p'-DDE) | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.8 | 0.9 | 0.6 | 0.5 | 0.05 U | 0.05 U |
| 2,4'-DDT (o,p'-DDT) | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| 4,4'-DDD (p,p'-DDD) | SW8270C | 2 | -- | 0.05 U | 0.05 U | 0.05 U | 3 | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| 4,4'-DDE (p,p'-DDE) | SW8270C | 2.2 | -- | 0.9 | 1.1 | 1.5 | 10.4 | 4 | 2.8 | 2.5 | 4.9 | 5.9 |
| 4,4'-DDT (p,p'-DDT) | SW8270C | 1 | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| Aldrin | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| Chlordane, alpha- (Chlordane, cis-) | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| Chlordane, gamma- | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.8 J | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| Dacthal | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| Dicofol | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| Dieldrin | SW8270C | 0.02 | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| Endosulfan sulfate | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| Endosulfan, alpha- (I) | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| Endosulfan, beta (II) | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| Endrin | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| Endrin aldehyde | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| Endrin ketone | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| Heptachlor | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| Heptachlor epoxide | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| Hexachlorocyclohexane (BHC), alpha- | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| Hexachlorocyclohexane (BHC), beta- | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| Hexachlorocyclohexane (BHC), delta- | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| Hexachlorocyclohexane (BHC), gamma- (Lindane) | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| Methoxychlor | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| Mirex | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| Nonachlor, cis- | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.5 | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| Nonachlor, trans- | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.7 J | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| Oxychlordane | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| p,p'-DDMU | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| Perthane | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| Toxaphene | SW8270CM | -- | 0.1 | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U |

Table 18
2013 Sediment Chemistry Results

| FINAL VALIDATED DATA | | | | | | | | | | | | |
|------------------------------|----------------------------------|---|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------|----------------------------|------------|
| Task Area | 2013_BightSeds Inner Harbor - LA | 2013_BightSeds Inner Harbor - LA | 2013_BightSeds Inner Harbor - LA | 2013_BightSeds Inner Harbor - LA | 2013_BightSeds Outer Harbor - LA | 2013_BightSeds Outer Harbor - LA | 2013_BightSeds Outer Harbor - LA | 2013_BightSeds Outer Harbor - LA | 2013_BightSeds Outer Harbor - LA | 2013_BightSeds Fish Harbor | 2013_BightSeds Fish Harbor | |
| Location ID | B13-8367 | B13-8384 | B13-8396 | B13-8397 | B13-8302 | B13-8304 | B13-8308 | TMDL2-FH | TMDL2-FH | | | |
| Sample ID | B13-8367 | B13-8384 | B13-8396 | B13-8397 | B13-8302 | B13-8304 | B13-8308 | TMDL2-FH | TMDL5-DT | | | |
| Sample Date | 7/11/2013 | 7/12/2013 | 7/12/2013 | 7/12/2013 | 7/11/2013 | 7/11/2013 | 7/11/2013 | 7/11/2013 | 7/11/2013 | | | |
| Depth Interval | 0 - 5 cm | 0 - 5 cm | 0 - 5 cm | 0 - 5 cm | 0 - 5 cm | 0 - 5 cm | 0 - 5 cm | 0 - 5 cm | 0 - 5 cm | | | |
| Sample Type | N | N | N | N | N | N | N | N | FD | | | |
| Matrix | SE | SE | SE | SE | SE | SE | SE | SE | SE | | | |
| X | -118.2489 | -118.27742 | -118.27747 | -118.24938 | -118.2579 | -118.24131 | -118.24385 | -118.2665833 | -118.2665833 | | | |
| Y | 33.74853 | 33.75686 | 33.7662 | 33.767 | 33.71242 | 33.71345 | 33.7174 | 33.73452667 | 33.73452667 | | | |
| Method | Sediment Target (ER-L) | Fish Tissue Associated Sediment Targets | | | | | | | | | | |
| Total chlordane (U = 0) | -- | 0.5 | 1.3 | 0.025 U | 0.025 U | 0.025 U | 2.0 J | 0.025 U | 0.025 U | 0.025 U | 0.025 U | 0.025 U |
| Total DDx (U = 0) | -- | 1.58 | 1.9 | 0.9 | 1.1 | 1.5 | 14.2 | 4.9 | 3.4 | 3.0 | 4.9 | 5.9 |
| PCB Congeners (µg/kg) | | | | | | | | | | | | |
| PCB-003 | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| PCB-005 | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| PCB-008 | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| PCB-015 | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| PCB-018 | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| PCB-027 | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| PCB-028 | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| PCB-029 | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| PCB-031 | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| PCB-033 | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| PCB-037 | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| PCB-044 | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.3 | 0.05 U | 0.05 U | 0.05 U | 0.7 | 0.05 U |
| PCB-049 | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 1.1 | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| PCB-052 | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 UJ | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| PCB-056/060 | SW8270C | -- | -- | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U |
| PCB-066 | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.7 J | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| PCB-070 | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.3 J | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.4 |
| PCB-074 | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.3 | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| PCB-077 | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| PCB-081 | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| PCB-087 | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.3 | 0.05 U | 0.05 U | 0.05 U | 0.2 | 0.6 |
| PCB-095 | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.2 | 0.8 J | 0.05 U | 0.05 U | 0.05 U | 0.3 | 1.2 |
| PCB-097 | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| PCB-099 | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.2 | 0.8 | 0.05 U | 0.05 U | 0.05 U | 0.3 | 0.9 |
| PCB-101 | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.4 | 1.4 | 0.05 U | 0.05 U | 0.05 U | 0.6 | 2.2 |
| PCB-105 | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.4 |
| PCB-110 | SW8270C | -- | -- | 0.05 U | 0.1 | 0.3 | 0.8 | 0.05 U | 0.05 U | 0.05 U | 0.5 | 1.7 |
| PCB-114 | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| PCB-118 | SW8270C | -- | -- | 0.05 U | 0.2 | 0.4 | 0.7 | 0.05 U | 0.05 U | 0.05 U | 0.7 | 1.5 |
| PCB-119 | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| PCB-123 | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| PCB-126 | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| PCB-128 | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| PCB-132/168 | SW8270C | -- | -- | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 1.1 |
| PCB-137 | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.5 |

Table 18
2013 Sediment Chemistry Results

| FINAL VALIDATED DATA | | | | Task | 2013_BightSeds | 2013_BightSeds | 2013_BightSeds | 2013_BightSeds | 2013_BightSeds | 2013_BightSeds | 2013_BightSeds | 2013_BightSeds | 2013_BightSeds |
|-----------------------------|---------|------|-----|------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|----------------|----------------|
| | | | | Area | Inner Harbor - LA | Inner Harbor - LA | Inner Harbor - LA | Inner Harbor - LA | Outer Harbor - LA | Outer Harbor - LA | Outer Harbor - LA | Fish Harbor | Fish Harbor |
| | | | | Location ID | B13-8367 | B13-8384 | B13-8396 | B13-8397 | B13-8302 | B13-8304 | B13-8308 | TMDL2-FH | TMDL2-FH |
| | | | | Sample ID | B13-8367 | B13-8384 | B13-8396 | B13-8397 | B13-8302 | B13-8304 | B13-8308 | TMDL2-FH | TMDL5-DT |
| | | | | Sample Date | 7/11/2013 | 7/12/2013 | 7/12/2013 | 7/12/2013 | 7/11/2013 | 7/11/2013 | 7/11/2013 | 7/11/2013 | 7/11/2013 |
| | | | | Depth Interval | 0 - 5 cm | 0 - 5 cm | 0 - 5 cm | 0 - 5 cm | 0 - 5 cm | 0 - 5 cm | 0 - 5 cm | 0 - 5 cm | 0 - 5 cm |
| | | | | Sample Type | N | N | N | N | N | N | N | N | FD |
| | | | | Matrix | SE | SE | SE | SE | SE | SE | SE | SE | SE |
| | | | | X | -118.2489 | -118.27742 | -118.27747 | -118.24938 | -118.2579 | -118.24131 | -118.24385 | -118.2665833 | -118.2665833 |
| | | | | Y | 33.74853 | 33.75686 | 33.7662 | 33.767 | 33.71242 | 33.71345 | 33.7174 | 33.73452667 | 33.73452667 |
| | | | | Fish Tissue Associated | | | | | | | | | |
| | | | | Sediment Target (ER-L) | | | | | | | | | |
| | | | | Method | | | | | | | | | |
| PCB-138 | SW8270C | -- | -- | | 0.05 U | 0.5 | 0.4 | 1.8 | 0.05 U | 0.05 U | 0.05 U | 2 | 5.1 |
| PCB-141 | SW8270C | -- | -- | | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| PCB-149 | SW8270C | -- | -- | | 0.05 U | 0.1 | 0.3 | 1.4 | 0.05 U | 0.05 U | 0.05 U | 0.5 | 1.6 |
| PCB-151 | SW8270C | -- | -- | | 0.05 U | 0.05 U | 0.05 U | 0.4 | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.5 |
| PCB-153 | SW8270C | -- | -- | | 0.05 U | 0.2 | 0.4 | 2.3 J | 0.05 U | 0.05 U | 0.05 U | 0.7 | 2.6 |
| PCB-156 | SW8270C | -- | -- | | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| PCB-157 | SW8270C | -- | -- | | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| PCB-158 | SW8270C | -- | -- | | 0.05 U | 0.2 | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.5 |
| PCB-167 | SW8270C | -- | -- | | 0.05 U | 0.2 | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 1 |
| PCB-169 | SW8270C | -- | -- | | 0.05 U | 2.6 | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| PCB-170 | SW8270C | -- | -- | | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| PCB-174 | SW8270C | -- | -- | | 0.05 U | 0.05 U | 0.05 U | 0.8 | 0.05 U | 0.05 U | 0.05 U | 0.3 | 1 |
| PCB-177 | SW8270C | -- | -- | | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| PCB-180 | SW8270C | -- | -- | | 0.05 U | 0.3 | 0.2 | 1.5 J | 0.05 U | 0.05 U | 0.05 U | 1.3 | 2.2 |
| PCB-183 | SW8270C | -- | -- | | 0.05 U | 0.05 U | 0.05 U | 0.5 | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| PCB-187 | SW8270C | -- | -- | | 0.05 U | 0.05 U | 0.05 U | 1 J | 0.05 U | 0.05 U | 0.05 U | 0.3 | 0.3 |
| PCB-189 | SW8270C | -- | -- | | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| PCB-194 | SW8270C | -- | -- | | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| PCB-195 | SW8270C | -- | -- | | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| PCB-199 | SW8270C | -- | -- | | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U |
| PCB-201 | SW8270C | -- | -- | | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| PCB-203 | SW8270C | -- | -- | | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| PCB-206 | SW8270C | -- | -- | | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| PCB-209 | SW8270C | -- | -- | | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| Total PCB congener (U = 0) | -- | 22.7 | 3.2 | | 0.05 U | 4.4 | 2.8 | 17.2 J | 0.05 U | 0.05 U | 0.05 U | 8.4 | 25.3 |

Table 18
2013 Sediment Chemistry Results

| FINAL VALIDATED DATA | | | | Task | 2013_BightSeds | 2013_BightSeds | 2013_BightSeds | 2013_BightSeds | | | |
|---|---------|------|----|------------------------|-------------------|-------------------|-----------------|-------------------|-----------------|---|--|
| | | | | Area | Inner Harbor - LB | Inner Harbor - LB | Cabrillo Marina | Consolidated Slip | | | |
| | | | | Location ID | TMDL3-TB | TMDL3-TB | TMDL1-CH | TMDL4-CS | | | |
| | | | | Sample ID | TMDL3-TB | TMDL6-CP | TMDL1-CH | TMDL4-CS | | | |
| | | | | Sample Date | 7/12/2013 | 7/12/2013 | 7/11/2013 | 7/12/2013 | | | |
| | | | | Depth Interval | 0 - 5 cm | 0 - 5 cm | 0 - 5 cm | 0 - 5 cm | | | |
| | | | | Sample Type | N | FD | N | N | | | |
| | | | | Matrix | SE | SE | SE | SE | | | |
| | | | | X | -118.2250283 | -118.2250283 | -118.2796733 | -118.245182 | | | |
| | | | | Y | 33.769305 | 33.769305 | 33.722245 | 33.775177 | | | |
| | | | | Fish Tissue Associated | | | | | | | |
| | | | | Sediment Target (ER-L) | | | | | | No. of Exceedances Relative to Any Target | Percentage of Exceedances Relative to Any Target |
| | | | | Method | | | | | Number Analyzed | | |
| Conventional Parameters (pct) | | | | | | | | | | | |
| Total organic carbon | SW9060 | -- | -- | | 2.03 | 1.25 | 2.41 | 3.35 | 30 | -- | -- |
| Total suspended solids | SM2540B | -- | -- | | 71.8 | 64.5 | 36.8 | 37.6 | 30 | -- | -- |
| Metals (mg/kg) | | | | | | | | | | | |
| Cadmium | SW6020 | 1.2 | -- | | 0.280 J | 0.367 J | 1.44 | 2.19 J | 30 | 4 | 13% |
| Chromium | SW6020 | 81 | -- | | 31.6 J | 36.7 J | 111 J | 125 J | 30 | 5 | 17% |
| Copper | SW6020 | 34 | -- | | 33.5 | 42.2 | 169 | 243 | 30 | 26 | 87% |
| Lead | SW6020 | 46.7 | -- | | 21.0 | 27.7 | 50.4 | 150 | 30 | 6 | 20% |
| Mercury | E245.7 | 0.15 | -- | | 0.348 | 0.475 | 0.613 | 0.454 | 30 | 26 | 87% |
| Zinc | SW6020 | 150 | -- | | 82.1 J | 103 J | 244 | 746 J | 30 | 12 | 40% |
| Semivolatile Organics (µg/kg) | | | | | | | | | | | |
| 1-Methylnaphthalene | SW8270C | -- | -- | | 1 U | 1 U | 1 U | 3 J | 30 | -- | -- |
| 2-Methylnaphthalene | SW8270C | 70 | -- | | 1 U | 1 U | 1 J | 6.6 | 30 | 0 | 0% |
| Acenaphthene | SW8270C | 16 | -- | | 1 U | 1 U | 1 UJ | 5 | 30 | 1 | 3% |
| Acenaphthylene | SW8270C | 44 | -- | | 1 U | 1 U | 2.5 J | 5.7 | 30 | 0 | 0% |
| Anthracene | SW8270C | 85.3 | -- | | 1 J | 7.1 | 12.7 | 54.1 | 30 | 1 | 3% |
| Benzo(a)anthracene | SW8270C | 261 | -- | | 1 U | 2.6 J | 17.6 | 107.9 | 30 | 0 | 0% |
| Benzo(a)pyrene | SW8270C | 430 | -- | | 1 U | 9.7 | 27.6 | 150.3 | 30 | 0 | 0% |
| Benzo(b)fluoranthene | SW8270C | -- | -- | | 1.8 J | 6.3 | 23.7 | 135.3 | 30 | -- | -- |
| Benzo(g,h,i)perylene | SW8270C | -- | -- | | 1.6 J | 3.8 J | 18.2 | 112.8 | 30 | -- | -- |
| Benzo(k)fluoranthene | SW8270C | -- | -- | | 1 U | 3 J | 14.6 | 81.4 | 30 | -- | -- |
| Biphenyl (1,1'-Biphenyl) | SW8270C | -- | -- | | 1 U | 1 U | 1 U | 1.5 J | 30 | -- | -- |
| Chrysene | SW8270C | 384 | -- | | 1.2 J | 4.7 J | 27.2 | 172.6 | 30 | 0 | 0% |
| Dibenzo(a,h)anthracene | SW8270C | 63.4 | -- | | 1 U | 3.3 J | 7.5 | 57.8 | 30 | 0 | 0% |
| Fluoranthene | SW8270C | 600 | -- | | 1 U | 2.4 J | 19.6 | 217.4 | 30 | 0 | 0% |
| Fluorene | SW8270C | 19 | -- | | 1 U | 1 U | 1 J | 5.8 | 30 | 0 | 0% |
| Hexachlorobenzene | SW8270C | -- | -- | | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 30 | -- | -- |
| Indeno(1,2,3-c,d)pyrene | SW8270C | -- | -- | | 1.8 J | 6.7 | 29.5 | 110.6 | 30 | -- | -- |
| Naphthalene | SW8270C | 160 | -- | | 1 U | 1 U | 1.4 J | 7.8 | 30 | 0 | 0% |
| Phenanthrene | SW8270C | 240 | -- | | 1 U | 1.1 J | 7 | 70.8 | 30 | 0 | 0% |
| Pyrene | SW8270C | 665 | -- | | 1 U | 3.7 J | 17.9 | 229.2 | 30 | 0 | 0% |
| Total HPAH (9 of 17) (U = 0) | -- | 1700 | -- | | 6.4 J | 46.2 J | 203.4 | 1375.3 | 30 | 0 | 0% |
| Total LPAH (8 of 17) (U = 0) | -- | 552 | -- | | 1.0 J | 8.2 J | 25.6 J | 157.3 J | 30 | 0 | 0% |
| Total PAH (17) (U = 0) | -- | 4022 | -- | | 7.4 J | 54.4 J | 229.0 J | 1532.6 J | 30 | 0 | 0% |
| Polycyclic Aromatic Hydrocarbons (µg/kg) | | | | | | | | | | | |
| 1-Methylphenanthrene | SW8270C | -- | -- | | 1 U | 1 U | 1.3 J | 9.8 | 30 | -- | -- |
| 2,3,5-Trimethylnaphthalene (1,6,7-Trimethylnaphthalene) | SW8270C | -- | -- | | 1 U | 1 U | 1 U | 2.6 J | 30 | -- | -- |

Table 18
2013 Sediment Chemistry Results

| FINAL VALIDATED DATA | | | | Task | 2013_BightSeds | 2013_BightSeds | 2013_BightSeds | 2013_BightSeds | | | |
|---|------------------------|---|-----|------------------------|-------------------|-------------------|-----------------|-------------------|-----------------|---|--|
| | | | | Area | Inner Harbor - LB | Inner Harbor - LB | Cabrillo Marina | Consolidated Slip | | | |
| | | | | Location ID | TMDL3-TB | TMDL3-TB | TMDL1-CH | TMDL4-CS | | | |
| | | | | Sample ID | TMDL3-TB | TMDL6-CP | TMDL1-CH | TMDL4-CS | | | |
| | | | | Sample Date | 7/12/2013 | 7/12/2013 | 7/11/2013 | 7/12/2013 | | | |
| | | | | Depth Interval | 0 - 5 cm | 0 - 5 cm | 0 - 5 cm | 0 - 5 cm | | | |
| | | | | Sample Type | N | FD | N | N | | | |
| | | | | Matrix | SE | SE | SE | SE | | | |
| | | | | X | -118.2250283 | -118.2250283 | -118.2796733 | -118.245182 | | | |
| | | | | Y | 33.769305 | 33.769305 | 33.722245 | 33.775177 | | | |
| | | | | Fish Tissue Associated | | | | | Number Analyzed | No. of Exceedances Relative to Any Target | Percentage of Exceedances Relative to Any Target |
| Method | Sediment Target (ER-L) | Fish Tissue Associated Sediment Targets | | | | | | | | | |
| 2,6-Dimethylnaphthalene | SW8270C | -- | -- | 1 U | 1 U | 1.2 J | 5 | 30 | -- | -- | |
| Benzo(e)pyrene | SW8270C | -- | -- | 1 U | 2.8 J | 15.6 | 120.7 | 30 | -- | -- | |
| Dibenzothiophene | SW8270C | -- | -- | 1 U | 1 U | 1 U | 6.1 | 30 | -- | -- | |
| Perylene | SW8270C | -- | -- | 1 U | 3.7 J | 40.5 | 58.9 | 30 | -- | -- | |
| Pesticides (µg/kg) | | | | | | | | | | | |
| 2,4'-DDD (o,p'-DDD) | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 30 | -- | -- | |
| 2,4'-DDE (o,p'-DDE) | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.4 | 0.05 U | 30 | -- | -- | |
| 2,4'-DDT (o,p'-DDT) | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 30 | -- | -- | |
| 4,4'-DDD (p,p'-DDD) | SW8270C | 2 | -- | 0.05 U | 0.05 U | 0.05 U | 5.6 | 30 | 2 | 7% | |
| 4,4'-DDE (p,p'-DDE) | SW8270C | 2.2 | -- | 0.05 U | 0.6 | 2.7 | 10.1 | 30 | 9 | 30% | |
| 4,4'-DDT (p,p'-DDT) | SW8270C | 1 | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 30 | 0 | 0% | |
| Aldrin | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 30 | -- | -- | |
| Chlordane, alpha- (Chlordane, cis-) | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 1.9 | 30 | -- | -- | |
| Chlordane, gamma- | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 2.1 | 30 | -- | -- | |
| Dacthal | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 30 | -- | -- | |
| Dicofol | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 30 | -- | -- | |
| Dieldrin | SW8270C | 0.02 | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 30 | 30 | 100% | |
| Endosulfan sulfate | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 30 | -- | -- | |
| Endosulfan, alpha- (I) | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 30 | -- | -- | |
| Endosulfan, beta (II) | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 30 | -- | -- | |
| Endrin | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 30 | -- | -- | |
| Endrin aldehyde | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 30 | -- | -- | |
| Endrin ketone | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 30 | -- | -- | |
| Heptachlor | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 30 | -- | -- | |
| Heptachlor epoxide | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 30 | -- | -- | |
| Hexachlorocyclohexane (BHC), alpha- | SW8270C | -- | -- | 0.05 U | 0.05 U | 1.1 | 0.05 U | 30 | -- | -- | |
| Hexachlorocyclohexane (BHC), beta- | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 30 | -- | -- | |
| Hexachlorocyclohexane (BHC), delta- | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 30 | -- | -- | |
| Hexachlorocyclohexane (BHC), gamma- (Lindane) | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 30 | -- | -- | |
| Methoxychlor | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 30 | -- | -- | |
| Mirex | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 30 | -- | -- | |
| Nonachlor, cis- | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.7 | 30 | -- | -- | |
| Nonachlor, trans- | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 1.5 | 30 | -- | -- | |
| Oxychlordane | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 30 | -- | -- | |
| p,p'-DDMU | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 30 | -- | -- | |
| Perthane | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 30 | -- | -- | |
| Toxaphene | SW8270CM | -- | 0.1 | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 30 | 0 | 0% | |

Table 18
2013 Sediment Chemistry Results

| FINAL VALIDATED DATA | | | | Task | 2013_BightSeds | 2013_BightSeds | 2013_BightSeds | 2013_BightSeds | | | |
|------------------------------|------------------------|---|-----|------------------------|-------------------|-------------------|-----------------|-------------------|-----------------|---|--|
| | | | | Area | Inner Harbor - LB | Inner Harbor - LB | Cabrillo Marina | Consolidated Slip | | | |
| | | | | Location ID | TMDL3-TB | TMDL3-TB | TMDL1-CH | TMDL4-CS | | | |
| | | | | Sample ID | TMDL3-TB | TMDL6-CP | TMDL1-CH | TMDL4-CS | | | |
| | | | | Sample Date | 7/12/2013 | 7/12/2013 | 7/11/2013 | 7/12/2013 | | | |
| | | | | Depth Interval | 0 - 5 cm | 0 - 5 cm | 0 - 5 cm | 0 - 5 cm | | | |
| | | | | Sample Type | N | FD | N | N | | | |
| | | | | Matrix | SE | SE | SE | SE | | | |
| | | | | X | -118.2250283 | -118.2250283 | -118.2796733 | -118.245182 | | | |
| | | | | Y | 33.769305 | 33.769305 | 33.722245 | 33.775177 | | | |
| | | | | Fish Tissue Associated | | | | | | No. of Exceedances Relative to Any Target | Percentage of Exceedances Relative to Any Target |
| Method | Sediment Target (ER-L) | Fish Tissue Associated Sediment Targets | | | | | | | Number Analyzed | | |
| Total chlordane (U = 0) | -- | 0.5 | 1.3 | 0.025 U | 0.025 U | 0.025 U | 6.2 | | 30 | 2 | 7% |
| Total DDx (U = 0) | -- | 1.58 | 1.9 | 0.025 U | 0.6 | 3.1 | 15.7 | | 30 | 12 | 40% |
| PCB Congeners (µg/kg) | | | | | | | | | | | |
| PCB-003 | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | | 30 | -- | -- |
| PCB-005 | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | | 30 | -- | -- |
| PCB-008 | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | | 30 | -- | -- |
| PCB-015 | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | | 30 | -- | -- |
| PCB-018 | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | | 30 | -- | -- |
| PCB-027 | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | | 30 | -- | -- |
| PCB-028 | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | | 30 | -- | -- |
| PCB-029 | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | | 30 | -- | -- |
| PCB-031 | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | | 30 | -- | -- |
| PCB-033 | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | | 30 | -- | -- |
| PCB-037 | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | | 30 | -- | -- |
| PCB-044 | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.8 | | 30 | -- | -- |
| PCB-049 | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 1.3 | | 30 | -- | -- |
| PCB-052 | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | | 30 | -- | -- |
| PCB-056/060 | SW8270C | -- | -- | 0.1 U | 0.1 U | 0.1 U | 0.1 U | | 30 | -- | -- |
| PCB-066 | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | | 30 | -- | -- |
| PCB-070 | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | | 30 | -- | -- |
| PCB-074 | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | | 30 | -- | -- |
| PCB-077 | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | | 30 | -- | -- |
| PCB-081 | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | | 30 | -- | -- |
| PCB-087 | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.2 | 0.4 | | 30 | -- | -- |
| PCB-095 | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.2 | 0.8 | | 30 | -- | -- |
| PCB-097 | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | | 30 | -- | -- |
| PCB-099 | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.6 | | 30 | -- | -- |
| PCB-101 | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.2 | 1.1 | | 30 | -- | -- |
| PCB-105 | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | | 30 | -- | -- |
| PCB-110 | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.2 | 0.8 | | 30 | -- | -- |
| PCB-114 | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | | 30 | -- | -- |
| PCB-118 | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.2 | 0.05 U | | 30 | -- | -- |
| PCB-119 | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | | 30 | -- | -- |
| PCB-123 | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | | 30 | -- | -- |
| PCB-126 | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | | 30 | -- | -- |
| PCB-128 | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | | 30 | -- | -- |
| PCB-132/168 | SW8270C | -- | -- | 0.1 U | 0.1 U | 0.3 | 0.1 U | | 30 | -- | -- |
| PCB-137 | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | | 30 | -- | -- |

**Table 18
2013 Sediment Chemistry Results**

| FINAL VALIDATED DATA | | | | Task | 2013_BightSeds | 2013_BightSeds | 2013_BightSeds | 2013_BightSeds | | | |
|-----------------------------|------------------------|---|-----|------------------------|-------------------|-------------------|-----------------|-------------------|-----------------|---|--|
| | | | | Area | Inner Harbor - LB | Inner Harbor - LB | Cabrillo Marina | Consolidated Slip | | | |
| | | | | Location ID | TMDL3-TB | TMDL3-TB | TMDL1-CH | TMDL4-CS | | | |
| | | | | Sample ID | TMDL3-TB | TMDL6-CP | TMDL1-CH | TMDL4-CS | | | |
| | | | | Sample Date | 7/12/2013 | 7/12/2013 | 7/11/2013 | 7/12/2013 | | | |
| | | | | Depth Interval | 0 - 5 cm | 0 - 5 cm | 0 - 5 cm | 0 - 5 cm | | | |
| | | | | Sample Type | N | FD | N | N | | | |
| | | | | Matrix | SE | SE | SE | SE | | | |
| | | | | X | -118.2250283 | -118.2250283 | -118.2796733 | -118.245182 | | | |
| | | | | Y | 33.769305 | 33.769305 | 33.722245 | 33.775177 | | | |
| | | | | Fish Tissue Associated | | | | | Number Analyzed | No. of Exceedances Relative to Any Target | Percentage of Exceedances Relative to Any Target |
| Method | Sediment Target (ER-L) | Fish Tissue Associated Sediment Targets | | | | | | | | | |
| PCB-138 | SW8270C | -- | -- | 0.05 U | 0.05 U | 1.2 | 1 | 30 | -- | -- | |
| PCB-141 | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.4 | 0.05 U | 30 | -- | -- | |
| PCB-149 | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.4 | 1.5 | 30 | -- | -- | |
| PCB-151 | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.1 | 0.05 U | 30 | -- | -- | |
| PCB-153 | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.9 | 1.6 | 30 | -- | -- | |
| PCB-156 | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 30 | -- | -- | |
| PCB-157 | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 30 | -- | -- | |
| PCB-158 | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.1 | 0.05 U | 30 | -- | -- | |
| PCB-167 | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 30 | -- | -- | |
| PCB-169 | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 30 | -- | -- | |
| PCB-170 | SW8270C | -- | -- | 0.05 U | 0.05 U | 1.7 | 0.05 U | 30 | -- | -- | |
| PCB-174 | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.9 | 0.7 | 30 | -- | -- | |
| PCB-177 | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.4 | 0.05 U | 30 | -- | -- | |
| PCB-180 | SW8270C | -- | -- | 0.05 U | 0.05 U | 2.3 | 1.4 | 30 | -- | -- | |
| PCB-183 | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.2 | 0.6 | 30 | -- | -- | |
| PCB-187 | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.5 | 1.2 | 30 | -- | -- | |
| PCB-189 | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 30 | -- | -- | |
| PCB-194 | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 30 | -- | -- | |
| PCB-195 | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 30 | -- | -- | |
| PCB-199 | SW8270C | -- | -- | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 30 | -- | -- | |
| PCB-201 | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 30 | -- | -- | |
| PCB-203 | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 30 | -- | -- | |
| PCB-206 | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 30 | -- | -- | |
| PCB-209 | SW8270C | -- | -- | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 30 | -- | -- | |
| Total PCB congener (U = 0) | -- | 22.7 | 3.2 | 0.05 U | 0.05 U | 10.4 | 13.8 | 30 | 7 | 23% | |

Table 18
2013 Sediment Chemistry Results

Notes:

Horizontal coordinate datum is NAD 1983 State Plane California V FIPS 0405 (U.S. Survey Feet).

All undetect results are reported at the method detection limit.

Totals (U=0) are calculated as the sum of all detected results. If all results are not detected, half of the highest reporting limit value is reported as the sum.

Total chlordane is the sum of alpha-chlordane, beta-chlordane, gamma-chlordane, cis-nonachlor, trans-nonachlor, and oxychlordane.

Total DDX is the sum of 4,4'-DDD, 4,4'-DDE, 4,4'-DDT, 2,4'-DDD, 2,4'-DDE, and 2,4'-DDT, if measured.

Total LPAH (8 of 17) is the sum of 2-methylnaphthalene, acenaphthene, acenaphthylene, anthracene, biphenyl, fluorene, naphthalene, and phenanthrene.


Total HPAH (9 of 17) is the sum of benzo(a)anthracene, benzo(a)pyrene, benzo(g,h,i)perylene, benzo(x)fluoranthenes, chrysene, dibenzo(a,h)anthracene, fluoranthene, indeno(1,2,3-c,d)pyrene, and pyrene.


Total PAH (17) is the sum of total LPAH and total HPAH shown on this table.


Total PCB congeners is the sum of all PCB congeners listed in this table.

USEPA Stage 2A data validation was completed by Anchor QEA.

Duplicate samples are not included in exceedence totals

 Detected concentration is greater than ERL screening level

 Total suspended solids

 Non-detected concentration is above one or more identified screening levels

Bold = Detected result

-- = results not reported or not applicable

µg/kg = micrograms per kilogram

cm = centimeters

HPAH = high molecular weight PAH

J = estimated value

LPAH = low molecular weight PAH

mg/kg = milligrams per kilogram

N = normal environmental sample

PAH = polycyclic aromatic hydrocarbon

PCB = polychlorinated biphenyl

pct = percent

SE = sediment matrix

U = compound analyzed but not detected above detection limit

UJ = compound analyzed but not detected above estimated detection limit

Table 19
Amec Foster Wheeler Toxicity Raw Results (Bight 2013)

| TMDL Waterbody | Station | Species | | | |
|-------------------|--------------------|-----------------------------|---------|---------------------|---------|
| | | <i>M. galloprovincialis</i> | | <i>E. estuarius</i> | |
| | | % Survival | p-value | % Survival | p-value |
| N/A | Control 1, Batch 1 | 98.0 | NA | 70.6 | NA |
| | Control 2, Batch 1 | 99.0 | NA | 70.7 | NA |
| | Control 1, Batch 2 | 98.0 | NA | 75.0 | NA |
| | Control 2, Batch 2 | 99.0 | NA | 74.8 | NA |
| Consolidated Slip | B13-TMDL-4CS | 90.2 | 0.016 | 83.0 | 0.001 |
| Inner Harbor - LA | B13-8316 | 76.5 | 0.400 | 94.0 | 0.113 |
| | B13-8340 | 72.5 | 0.496 | 87.0 | <0.0001 |
| | B13-8367 | 84.0 | 0.194 | 97.0 | 0.199 |
| | B13-8384 | 84.7 | 0.044 | 96.0 | 0.243 |
| | B13-8396 | 75.2 | 0.400 | 91.0 | 0.042 |
| B13-8397 | 82.8 | 0.078 | 91.0 | 0.042 | |
| Fish Harbor | B13-TMDL-2FH | 88.5 | 0.110 | 89.0 | 0.006 |
| Outer Harbor - LA | B13-8302 | 82.8 | 0.219 | 84.0 | <0.0001 |
| | B13-8304 | 60.2 | 0.106 | 92.0 | 0.007 |
| | B13-8308 | 59.5 | 0.002 | 93.0 | 0.003 |
| Cabrillo Marina | B13-TMDL-1CH | 67.4 | 0.263 | 77.0 | <0.0001 |
| Cabrillo Beach | B13-8306 | 68.1 | 0.383 | 89.0 | 0.003 |
| Inner Harbor - LB | B13-8363 | 72.8 | 0.102 | 94.0 | 0.121 |
| | B13-8365 | 95.4 | 0.042 | 87.0 | <0.0001 |
| | B13-8371 | 58.1 | 0.089 | 96.0 | 0.121 |
| | B13-8374 | 60.6 | 0.033 | 88.0 | 0.048 |
| | B13-8382 | 62.9 | 0.193 | 97.0 | 0.290 |
| | B13-8399 | 79.1 | 0.205 | 97.0 | 0.366 |
| | B13-8401 | 60.3 | 0.124 | 86.0 | 0.007 |
| B13-TMDL-3TB | 70.3 | 0.271 | 94.0 | 0.056 | |
| Outer Harbor - LB | B13-8310 | 63.6 | 0.053 | 92.0 | 0.029 |
| | B13-8318 | 70.5 | 0.238 | 93.0 | 0.030 |
| | B13-8322 | 65.0 | 0.091 | 89.0 | 0.010 |
| | B13-8326 | 67.0 | 0.071 | 96.0 | 0.033 |
| | B13-8333 | 69.1 | 0.170 | 98.0 | 0.272 |
| | B13-8347 | 58.1 | 0.058 | 85.0 | 0.015 |
| | B13-8349 | 62.7 | <0.0001 | 91.0 | 0.016 |
| | B13-8356 | 66.9 | 0.399 | 95.0 | 0.137 |
| B13-8360 | 67.8 | 0.470 | 98.0 | 0.500 | |

Notes:

Source: Amec Foster Wheeler (2015)

Red text = significant

TMDL = total maximum daily load

Table 20
Amec Foster Wheeler Benthic Taxa Summary (Bight 2013)

| TMDL Waterbody | Station | Total Number of Taxa | Number of Mollusk Taxa | Number of Crustacean Taxa | Percentage of Sensitive Taxa |
|-----------------------|----------------|-----------------------------|-------------------------------|----------------------------------|-------------------------------------|
| Consolidated Slip | TMDL4-CS | 30 | 1 | 11 | 23.3 |
| Inner Harbor - LA | B13-8316 | 51 | 9 | 7 | 23.5 |
| | B13-8340 | 30 | 7 | 4 | 16.7 |
| | B13-8367 | 35 | 5 | 14 | 37.1 |
| | B13-8384 | 31 | 7 | 5 | 16.1 |
| | B13-8396 | 46 | 9 | 9 | 8.7 |
| | B13-8397 | 31 | 2 | 9 | 19.4 |
| Fish Harbor | TMDL2-FH | 36 | 6 | 10 | 11.1 |
| Outer Harbor - LA | B13-8302 | 48 | 15 | 4 | 12.5 |
| | B13-8304 | 51 | 11 | 5 | 15.7 |
| | B13-8308 | 43 | 7 | 8 | 20.9 |
| Cabrillo Marina | TMDL1-CH | 33 | 6 | 6 | 6.1 |
| Cabrillo Beach | B13-8306 | 41 | 11 | 14 | 41.5 |
| Inner Harbor - LB | B13-8356 | 51 | 12 | 5 | 7.8 |
| | B13-8363 | 55 | 11 | 11 | 21.8 |
| | B13-8365 | 50 | 16 | 5 | 20.0 |
| | B13-8371 | 47 | 16 | 11 | 17.0 |
| | B13-8374 | 38 | 10 | 6 | 18.4 |
| | B13-8382 | 57 | 15 | 11 | 17.5 |
| | B13-8399 | 33 | 7 | 3 | 27.3 |
| | B13-8401 | 41 | 5 | 7 | 14.6 |
| | TMDL3-TB | 32 | 4 | 3 | 6.3 |
| Outer Harbor - LB | B13-8310 | 48 | 10 | 7 | 16.7 |
| | B13-8318 | 40 | 9 | 6 | 27.5 |
| | B13-8322 | 40 | 9 | 6 | 12.5 |
| | B13-8326 | 41 | 7 | 10 | 29.3 |
| | B13-8333 | 41 | 11 | 6 | 24.4 |
| | B13-8347 | 48 | 11 | 5 | 20.8 |
| | B13-8349 | 31 | 8 | 8 | 19.4 |
| | B13-8360 | 81 | 27 | 11 | 23.5 |

Notes:

Source: Amec Foster Wheeler (2015)

Detailed taxa available in Appendix E

Table 21
SQO Sediment Chemistry Evaluation

| TMDL Waterbody | Station | CSI Score | CA LRM PMAX Value * | Integrated Chemistry LOE Score |
|-----------------------|----------------|------------------|----------------------------|---------------------------------------|
| Consolidated Slip | TMDL4-CS | 2.93 | 0.86 | High |
| Inner Harbor - LA | B13-8316 | 1.43 | 0.52 | Low |
| | B13-8340 | 1.58 | 0.54 | Low |
| | B13-8367 | 1.05 | 0.28 | Minimal |
| | B13-8384 | 1.58 | 0.56 | Low |
| | B13-8396 | 1.58 | 0.52 | Low |
| | B13-8397 | 2.53 | 0.80 | High |
| Fish Harbor | TMDL2-FH | 2.41 | 0.86 | High |
| Outer Harbor - LA | B13-8302 | 1.48 | 0.52 | Low |
| | B13-8304 | 1.27 | 0.48 | Low |
| | B13-8308 | 1.27 | 0.48 | Low |
| Cabrillo Marina | TMDL1-CH | 1.96 | 0.69 | Moderate |
| Cabrillo Beach | B13-8306 | 1.43 | 0.62 | Low |
| Inner Harbor - LB | B13-8356 | 1.1 | 0.45 | Low |
| | B13-8363 | 1.38 | 0.49 | Low |
| | B13-8365 | 1.38 | 0.48 | Low |
| | B13-8371 | 1.1 | 0.41 | Low |
| | B13-8374 | 1.58 | 0.53 | Low |
| | B13-8382 | 1.63 | 0.54 | Low |
| | B13-8399 | 2.38 | 0.90 | High |
| | B13-8401 | 2.22 | 0.75 | Moderate |
| | TMDL3-TB | 1.05 | 0.38 | Low |
| Outer Harbor - LB | B13-8310 | 1.27 | 0.46 | Low |
| | B13-8318 | 1.43 | 0.51 | Low |
| | B13-8322 | 1.58 | 0.52 | Low |
| | B13-8326 | 1.1 | 0.43 | Low |
| | B13-8333 | 1.05 | 0.35 | Low |
| | B13-8347 | 1.58 | 0.52 | Low |
| | B13-8349 | 1.75 | 0.57 | Moderate |
| | B13-8360 | 1.1 | 0.37 | Low |

Notes:

* Maximum probability of toxicity (PMAX)

Source: Amec Foster Wheeler (2015)

CA LRM = California Logistic Regression Model

CSI = Chemical Score Index

LOE = line of evidence

SQO = Sediment Quality Objective

TMDL = total maximum daily load

Table 22
SQO Benthic Community Evaluation

| TMDL Waterbody | Station | BRI Score | IBI Score | RBI Score | RIVPACS Score | Integrated Benthic Community LOE |
|-------------------|----------|-----------|-----------|-----------|---------------|----------------------------------|
| Consolidated Slip | TMDL4-CS | 50.94 | 1 | 0.20 | 1.19 | Low disturbance |
| Inner Harbor - LA | B13-8316 | 8.03 | 0 | 0.23 | 0.81 | Low disturbance |
| | B13-8340 | 26.47 | 1 | 0.14 | 0.40 | Moderate disturbance |
| | B13-8367 | 42.99 | 0 | 0.43 | 1.14 | Low disturbance |
| | B13-8384 | 18.38 | 1 | 0.15 | 0.45 | Moderate disturbance |
| | B13-8396 | 24.15 | 1 | 0.21 | 0.45 | Low disturbance |
| | B13-8397 | 56.35 | 0 | 0.24 | 1.03 | Low disturbance |
| Fish Harbor | TMDL2-FH | 48.54 | 1 | 0.17 | 1.01 | Low disturbance |
| Outer Harbor - LA | B13-8302 | 10.57 | 1 | 0.24 | 0.17 | Low disturbance |
| | B13-8304 | 8.55 | 1 | 0.23 | 0.17 | Low disturbance |
| | B13-8308 | 5.93 | 0 | 0.20 | 0.68 | Low disturbance |
| Cabrillo Marina | TMDL1-CH | 27.51 | 1 | 0.16 | 1.00 | Low disturbance |
| Cabrillo Beach | B13-8306 | 26.32 | 0 | 0.26 | 0.59 | Low disturbance |
| Inner Harbor - LB | B13-8356 | 9.25 | 1 | 0.23 | 0.58 | Low disturbance |
| | B13-8363 | 14.97 | 0 | 0.28 | 0.00 | Reference |
| | B13-8365 | 14.85 | 0 | 0.26 | 0.25 | Low disturbance |
| | B13-8371 | 10.73 | 1 | 0.30 | 0.51 | Low disturbance |
| | B13-8374 | 6.77 | 1 | 0.20 | 0.00 | Low disturbance |
| | B13-8382 | 21.52 | 1 | 0.29 | 0.59 | Low disturbance |
| | B13-8399 | 18.42 | 0 | 0.14 | 0.51 | Low disturbance |
| | B13-8401 | 37.11 | 1 | 0.17 | 0.51 | Low disturbance |
| | TMDL3-TB | 23.13 | 1 | 0.12 | 0.29 | Moderate disturbance |
| Outer Harbor - LB | B13-8310 | 14.25 | 1 | 0.23 | 0.90 | Low disturbance |
| | B13-8318 | 8.41 | 0 | 0.19 | 0.15 | Low disturbance |
| | B13-8322 | 2.78 | 1 | 0.19 | 0.15 | Low disturbance |
| | B13-8326 | 9.63 | 0 | 0.21 | 0.23 | Low disturbance |
| | B13-8333 | 8.38 | 0 | 0.21 | 0.29 | Low disturbance |
| | B13-8347 | 12.84 | 0 | 0.22 | 0.29 | Low disturbance |
| | B13-8349 | 8.63 | 0 | 0.18 | 0.45 | Low disturbance |
| | B13-8360 | 7.22 | 1 | 0.46 | 0.59 | Low disturbance |

Notes:

Source: Amec Foster Wheeler (2015)

Integrated benthic community score calculated as the median score of the four benthic indices (IBI, RBI, BRI, and RIVPACS)

BRI = Benthic Response Index

IBI = Index of Biotic Integrity

LOE = line of evidence

RBI = Relative Benthic Index

RIVPACS = River Invertebrate Prediction and Classification System

SQO = Sediment Quality Objective

TMDL = total maximum daily load

Table 23
SQO Toxicity Evaluation

| TMDL Waterbody | Location | <i>M. galloprovincialis</i> % Control Adjusted Toxicity | <i>E. estuarius</i> % Control Adjusted Toxicity | Final Toxicity LOE Category |
|-----------------------|-----------------|--|--|--|
| Consolidated Slip | B13-TMDL-4CS | 120% | 85% | Low Toxicity |
| Inner Harbor - LA | B13-8316 | 102% | 95% | Nontoxic |
| | B13-8367 | 112% | 98% | Nontoxic |
| | B13-8340 | 97% | 88% | Low Toxicity |
| | B13-8384 | 113% | 98% | Nontoxic |
| | B13-8396 | 100% | 93% | Nontoxic |
| | B13-8397 | 110% | 93% | Nontoxic |
| Fish Harbor | B13-TMDL-2FH | 118% | 90% | Low Toxicity |
| Outer Harbor - LA | B13-8302 | 111% | 85% | Low Toxicity |
| | B13-8304 | 85% | 93% | Nontoxic |
| | B13-8308 | 84% | 94% | Low Toxicity |
| Cabrillo Beach | B13-8306 | 91% | 90% | Low Toxicity |
| Cabrillo Marina | B13-TMDL-1CH | 90% | 78% | Low Toxicity |
| Inner Harbor - LB | B13-8356 | 95% | 97% | Nontoxic |
| | B13-8363 | 103% | 96% | Nontoxic |
| | B13-8365 | 128% | 88% | Low Toxicity |
| | B13-8371 | 82% | 98% | Nontoxic |
| | B13-8374 | 86% | 90% | Low Toxicity |
| | B13-8382 | 89% | 99% | Nontoxic |
| | B13-8399 | 105% | 99% | Nontoxic |
| | B13-8401 | 80% | 88% | Low Toxicity |
| | B13-TMDL-3TB | 94% | 96% | Nontoxic |
| Outer Harbor - LB | B13-8318 | 100% | 94% | Nontoxic |
| | B13-8322 | 92% | 90% | Low Toxicity |
| | B13-8326 | 95% | 97% | Nontoxic |
| | B13-8333 | 98% | 99% | Nontoxic |
| | B13-8347 | 82% | 87% | Low Toxicity |
| | B13-8349 | 89% | 92% | Low Toxicity |
| | B13-8360 | 96% | 100% | Nontoxic |
| | B13-8310 | 90% | 93% | Nontoxic |

Notes:

Source: Amec Foster Wheeler Environmental & Infrastructure, Inc. 2015

LOE = line of evidence

SQO = Sediment Quality Objective

TMDL = total maximum daily load

Table 24
SQO Direct Effects Integrated Station Assessment Results

| TMDL Waterbody | Station | Sediment Chemistry Exposure | Benthic Community Exposure | Sediment Toxicity | Station Assessment | Number of Impacted Stations per Waterbody¹ |
|-----------------------|----------------|------------------------------------|-----------------------------------|--------------------------|---------------------------|--|
| Consolidated Slip | TMDL4-CS | High | Low Disturbance | Low Toxicity | Possibly impacted | 1 of 1 |
| Inner Harbor - LA | B13-8316 | Low | Low Disturbance | Nontoxic | Unimpacted | 1 of 6 |
| | B13-8340 | Low | Moderate Disturbance | Low Toxicity | Possibly impacted | |
| | B13-8367 | Minimal | Low Disturbance | Nontoxic | Unimpacted | |
| | B13-8384 | Low | Moderate Disturbance | Nontoxic | Likely unimpacted | |
| | B13-8396 | Low | Low Disturbance | Nontoxic | Unimpacted | |
| | B13-8397 | High | Low Disturbance | Nontoxic | Likely unimpacted | |
| Fish Harbor | TMDL2-FH | High | Low Disturbance | Low Toxicity | Possibly impacted | 1 of 1 |
| Outer Harbor - LA | B13-8302 | Low | Low Disturbance | Low Toxicity | Likely unimpacted | 0 of 1 |
| | B13-8304 | Low | Low Disturbance | Nontoxic | Unimpacted | |
| | B13-8308 | Low | Low Disturbance | Low Toxicity | Likely unimpacted | |
| Cabrillo Marina | TMDL1-CH | Moderate | Low Disturbance | Low Toxicity | Possibly impacted | 1 of 1 |
| Cabrillo Beach | B13-8306 | Low | Low Disturbance | Low Toxicity | Likely unimpacted | 0 of 1 |
| Inner Harbor - LB | B13-8356 | Low | Low Disturbance | Nontoxic | Unimpacted | 1 of 9 |
| | B13-8363 | Low | Reference | Nontoxic | Unimpacted | |
| | B13-8365 | Low | Low Disturbance | Low Toxicity | Likely unimpacted | |
| | B13-8371 | Low | Low Disturbance | Nontoxic | Unimpacted | |
| | B13-8374 | Low | Low Disturbance | Low Toxicity | Likely unimpacted | |
| | B13-8382 | Low | Low Disturbance | Nontoxic | Unimpacted | |
| | B13-8399 | High | Low Disturbance | Nontoxic | Likely unimpacted | |
| | B13-8401 | Moderate | Low Disturbance | Low Toxicity | Possibly impacted | |
| | TMDL3-TB | Low | Moderate Disturbance | Nontoxic | Likely unimpacted | |

Table 24
SQO Direct Effects Integrated Station Assessment Results

| TMDL Waterbody | Station | Sediment Chemistry Exposure | Benthic Community Exposure | Sediment Toxicity | Station Assessment | Number of Impacted Stations per Waterbody ¹ |
|--|-----------|-----------------------------|----------------------------|-------------------|--------------------|--|
| Outer Harbor - LB | B13-8318 | Low | Low Disturbance | Nontoxic | Unimpacted | 1 of 6 |
| | B13-8322 | Low | Low Disturbance | Low Toxicity | Likely unimpacted | |
| | B13-8326 | Low | Low Disturbance | Nontoxic | Unimpacted | |
| | B13-8333 | Low | Low Disturbance | Nontoxic | Unimpacted | |
| | B13-8347 | Low | Low Disturbance | Low Toxicity | Likely unimpacted | |
| | B13-8349 | Moderate | Low Disturbance | Low Toxicity | Possibly impacted | |
| | B13-8360 | Low | Low Disturbance | Nontoxic | Unimpacted | |
| Eastern San Pedro Bay/Los Angeles River Estuary* | B13-8315 | | | | | |
| | B13-8319 | | | | | |
| | B13-8325 | | | | | |
| | B13-8346 | | | | | |
| | B13-8350 | | | | | |
| | B13-8351 | | | | | |
| | B13-8353 | | | | | |
| | B13-8355 | | | | | |
| | B13-8358 | | | | | |
| | B13-8375 | | | | | |
| | B13-8388 | | | | | |
| | B13-8390 | | | | | |
| | B13-8403 | | | | | |
| | B13--9239 | | | | | |
| B13-9245 | | | | | | |

Notes:

¹ Result by waterbody is the number of possibly impacted, likely impacted, and clearly impacted station results relative to total number of stations per w

Source: Amec Foster Wheeler 2015

* No data in Los Angeles River Estuary or Eastern San Pedro Bay

SQO = Sediment Quality Objective

TMDL = total maximum daily load

Table 25
Summer 2014 Fish Sampling Field Data

| Sample ID | Common Name | Scientific Name | Northing | Easting | Waterbody | Date | Time | Average Fish Length in composite (mm) | Total Weight of composite (g) | Average Fish Weight in composite (g) | Number of Fish in Composite |
|----------------------|--------------------|----------------------------------|----------|------------|-----------------------|------------|----------|---------------------------------------|-------------------------------|--------------------------------------|-----------------------------|
| CP-FF-CH-C1-20141008 | California halibut | <i>Paralichthys californicus</i> | 33.70813 | -118.27316 | Outer Los Angeles | 10/8/2014 | 11:37:00 | 678.5 | 7000 | 3500 | 2 |
| CP-FF-CH-C2-20141008 | California halibut | <i>Paralichthys californicus</i> | 33.70813 | -118.27316 | Outer Los Angeles | 10/8/2014 | 11:37:00 | 351.3 | 2480 | 413.3 | 6 |
| CP-FF-CH-C3-20141008 | California halibut | <i>Paralichthys californicus</i> | 33.70813 | -118.27316 | Outer Los Angeles | 10/8/2014 | 11:37:00 | 275.9 | 1270 | 181.4 | 7 |
| CP-FF-WC-C1-20141008 | White croaker | <i>Genyonemus lineatus</i> | 33.70813 | -118.27316 | Outer Los Angeles | 10/8/2014 | 11:26:00 | 224.3 | 630 | 157.5 | 4 |
| CP-FF-WC-C2-20141008 | White croaker | <i>Genyonemus lineatus</i> | 33.70813 | -118.27316 | Outer Los Angeles | 10/8/2014 | 11:26:00 | 213.5 | 470 | 117.5 | 4 |
| CP-FF-WC-C3-20141008 | White croaker | <i>Genyonemus lineatus</i> | 33.70813 | -118.27316 | Outer Los Angeles | 10/8/2014 | 11:26:00 | 205 | 390 | 97.5 | 4 |
| CP-WO-WS-C1-20141008 | White surfperch | <i>Phanerodon furcatus</i> | 33.70813 | -118.27316 | Outer Los Angeles | 10/8/2014 | 11:14:00 | 112.6 | ND | ND | 9 |
| CP-WO-WS-C2-20141008 | White surfperch | <i>Phanerodon furcatus</i> | 33.70813 | -118.27316 | Outer Los Angeles | 10/8/2014 | 11:14:00 | 102.9 | ND | ND | 9 |
| CP-WO-WS-C3-20141008 | White surfperch | <i>Phanerodon furcatus</i> | 33.70813 | -118.27316 | Outer Los Angeles | 10/8/2014 | 11:14:00 | 94.9 | ND | ND | 9 |
| CS-FF-WC-C1-20141015 | White croaker | <i>Genyonemus lineatus</i> | 33.77465 | -118.24587 | Consolidated Slip | 10/15/2014 | 11:30:00 | 262 | 690 | 230 | 3 |
| CS-FF-WC-C2-20141015 | White croaker | <i>Genyonemus lineatus</i> | 33.77465 | -118.24587 | Consolidated Slip | 10/15/2014 | 11:30:00 | 243 | 790 | 197.5 | 4 |
| CS-FF-WC-C3-20141015 | White croaker | <i>Genyonemus lineatus</i> | 33.77465 | -118.24587 | Consolidated Slip | 10/15/2014 | 11:30:00 | 201.3 | 410 | 102.5 | 4 |
| OB-FF-CH-C1-20141008 | California halibut | <i>Paralichthys californicus</i> | 33.73451 | -118.23747 | Outer Long Beach | 10/8/2014 | 12:03:00 | 400 | 2170 | 723.3 | 3 |
| OB-FF-CH-C2-20141008 | California halibut | <i>Paralichthys californicus</i> | 33.73451 | -118.23747 | Outer Long Beach | 10/8/2014 | 12:03:00 | 318 | 920 | 306.7 | 3 |
| OB-FF-CH-C3-20141008 | California halibut | <i>Paralichthys californicus</i> | 33.73451 | -118.23747 | Outer Long Beach | 10/8/2014 | 12:03:00 | 250.7 | 420 | 140 | 3 |
| OB-FF-WC-C1-20141008 | White croaker | <i>Genyonemus lineatus</i> | 33.73451 | -118.23747 | Outer Long Beach | 10/8/2014 | 11:46:00 | 231 | 500 | 125 | 4 |
| OB-FF-WC-C2-20141008 | White croaker | <i>Genyonemus lineatus</i> | 33.73451 | -118.23747 | Outer Long Beach | 10/8/2014 | 11:46:00 | 222 | 510 | 127.5 | 4 |
| OB-FF-WC-C3-20141008 | White croaker | <i>Genyonemus lineatus</i> | 33.73451 | -118.23747 | Outer Long Beach | 10/8/2014 | 11:46:00 | 213 | 480 | 120 | 4 |
| OB-WO-WS-C1-20141008 | White surfperch | <i>Phanerodon furcatus</i> | 33.73451 | -118.23747 | Outer Long Beach | 10/8/2014 | 11:52:00 | 212 | 520 | 130 | 4 |
| OB-WO-WS-C2-20141008 | White surfperch | <i>Phanerodon furcatus</i> | 33.73451 | -118.23747 | Outer Long Beach | 10/8/2014 | 11:52:00 | 157.5 | 240 | 60 | 4 |
| OB-WO-WS-C3-20141008 | White surfperch | <i>Phanerodon furcatus</i> | 33.73451 | -118.23747 | Outer Long Beach | 10/8/2014 | 11:52:00 | 108.5 | 200 | 50 | 4 |
| SP-FF-CH-C1-20141008 | California halibut | <i>Paralichthys californicus</i> | 33.74520 | -118.18582 | Eastern San Pedro Bay | 10/8/2014 | 12:10:00 | 513 | 5170 | 1292.5 | 4 |
| SP-FF-CH-C2-20141008 | California halibut | <i>Paralichthys californicus</i> | 33.74520 | -118.18582 | Eastern San Pedro Bay | 10/8/2014 | 12:10:00 | 327 | 1252 | 313 | 4 |
| SP-FF-CH-C3-20141008 | California halibut | <i>Paralichthys californicus</i> | 33.74520 | -118.18582 | Eastern San Pedro Bay | 10/8/2014 | 12:10:00 | 270.25 | 730 | 182.5 | 4 |
| SP-FF-WC-C1-20141008 | White croaker | <i>Genyonemus lineatus</i> | 33.74520 | -118.18582 | Eastern San Pedro Bay | 10/8/2014 | 12:26:00 | 249 | 700 | 175 | 4 |
| SP-FF-WC-C2-20141008 | White croaker | <i>Genyonemus lineatus</i> | 33.74520 | -118.18582 | Eastern San Pedro Bay | 10/8/2014 | 12:26:00 | 239.8 | 620 | 155 | 4 |
| SP-FF-WC-C3-20141008 | White croaker | <i>Genyonemus lineatus</i> | 33.74520 | -118.18582 | Eastern San Pedro Bay | 10/8/2014 | 12:26:00 | 225.3 | 490 | 122.5 | 4 |
| SP-WO-PP-C1-20141008 | Pacific pompano | <i>Peprilus simillimus</i> | 33.74520 | -118.18582 | Eastern San Pedro Bay | 10/8/2014 | 12:19:00 | 157.9 | 460 | 65.7 | 7 |
| SP-WO-PP-C2-20141008 | Pacific pompano | <i>Peprilus simillimus</i> | 33.74520 | -118.18582 | Eastern San Pedro Bay | 10/8/2014 | 12:19:00 | 98.1 | 210 | 35 | 6 |
| SP-WO-PP-C3-20141008 | Pacific pompano | <i>Peprilus simillimus</i> | 33.74520 | -118.18582 | Eastern San Pedro Bay | 10/8/2014 | 12:19:00 | 98.1 | 160 | 26.7 | 7 |

Notes:

California halibut and white croaker composited using skin off fillets

Pacific pompano and white surfperch composited using whole body

ND = no data (pacific pompano and white surfperch too low of weight to register on scale individually)

g = grams

mm = millimeter

Table 26
2014 Fish Tissue Chemistry Results

| FINAL VALIDATED DATA | | | Outer Los Angeles Harbor | | | | | | |
|---|----------------------------------|----------------------------------|----------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|---------|
| Area | Sample ID | CP_2014_Fish | CP_2014_Fish | CP_2014_Fish | CP_2014_Fish | CP_2014_Fish | CP_2014_Fish | CP_2014_Fish | |
| Sample ID | CP-FF-CH-C1-20141008 | CP-FF-CH-C2-20141008 | CP-FF-CH-C3-20141008 | CP-FF-WC-C1-20141008 | CP-FF-WC-C2-20141008 | CP-FF-WC-C3-20141008 | CP-FF-WC-C3-20141008 | CP-WO-WS-C1-20141008 | |
| Common Name | California halibut | California halibut | California halibut | White croaker | White croaker | White croaker | White croaker | White surfperch | |
| Scientific Name | <i>Paralichthys californicus</i> | <i>Paralichthys californicus</i> | <i>Paralichthys californicus</i> | <i>Genyonemus lineatus</i> | <i>Genyonemus lineatus</i> | <i>Genyonemus lineatus</i> | <i>Genyonemus lineatus</i> | <i>Phanerodon furcatus</i> | |
| Tissue Type | Fillet without skin | Fillet without skin | Fillet without skin | Fillet without skin | Fillet without skin | Fillet without skin | Fillet without skin | Whole Body | |
| Sample Date | 10/8/2014 | 10/8/2014 | 10/8/2014 | 10/8/2014 | 10/8/2014 | 10/8/2014 | 10/8/2014 | 10/8/2014 | |
| X | -118.2754 | -118.2754 | -118.2754 | -118.2754 | -118.2754 | -118.2754 | -118.2754 | -118.2754 | |
| Y | 33.709332 | 33.709332 | 33.709332 | 33.709332 | 33.709332 | 33.709332 | 33.709332 | 33.709332 | |
| TMDL Fish Tissue Target | | | | | | | | | |
| Method | | | | | | | | | |
| Conventional Parameters (pct) | | | | | | | | | |
| Lipids | NOAA Lipids 1993 | -- | 0.30 | 0.33 | 0.18 | 5.6 | 5.0 | 3.4 | 2.1 |
| Moisture (water) content | D2216 | -- | 76.3 | 77.6 | 77.5 | 73.9 | 75.0 | 76.0 | 76.4 |
| Pesticides (µg/kg) | | | | | | | | | |
| 2,4'-DDD (o,p'-DDD) | SW8270CSIM | -- | 0.085 J | 0.13 J | 0.089 J | 0.26 | 1.4 | 0.22 | 0.11 J |
| 2,4'-DDE (o,p'-DDE) | SW8270CSIM | -- | 0.64 | 0.44 | 0.38 | 7.5 | 6.2 | 10 | 1.5 |
| 2,4'-DDT (o,p'-DDT) | SW8270CSIM | -- | 0.032 U | 0.032 U | 0.032 U | 0.032 U | 0.032 U | 0.032 U | 0.032 U |
| 4,4'-DDD (p,p'-DDD) | SW8270CSIM | -- | 0.19 J | 0.16 J | 0.15 J | 1.8 | 1.8 | 2.1 | 0.91 |
| 4,4'-DDE (p,p'-DDE) | SW8270CSIM | -- | 12 J | 7.6 | 7.6 | 99 | 85 | 110 | 69 |
| 4,4'-DDT (p,p'-DDT) | SW8270CSIM | -- | 0.081 U | 0.081 U | 0.081 U | 0.43 | 0.33 | 0.32 | 0.14 J |
| Chlordane, alpha- (Chlordane, cis-) | SW8270CSIM | -- | 0.067 UJ | 0.067 U | 0.097 J | 0.59 | 0.58 | 0.49 | 0.38 |
| Chlordane, beta- (Chlordane, trans-) | SW8270CSIM | -- | 0.046 UJ | 0.046 U | 0.090 J | 0.22 | 0.18 J | 0.19 J | 0.35 |
| Dieldrin | SW8270CSIM | 0.46 | 0.090 UJ | 0.090 U | 0.090 U | 0.090 U | 0.090 U | 0.090 U | 0.090 U |
| Nonachlor, cis- | SW8270CSIM | -- | 0.060 J | 0.056 J | 0.085 J | 0.34 | 0.37 | 0.34 | 0.25 |
| Nonachlor, trans- | SW8270CSIM | -- | 0.082 J | 0.066 J | 0.11 J | 0.52 | 0.56 | 0.40 | 0.44 |
| Oxychlordane | SW8270CSIM | -- | 0.076 U | 0.076 U | 0.77 | 0.076 U | 0.076 U | 0.076 U | 0.076 U |
| Toxaphene | SW8081A | 6.1 | 0.61 U | 0.61 U | 0.61 U | 0.61 U | 0.61 U | 0.61 U | 0.61 U |
| Total chlordane (U = 0) | -- | 5.6 | 0.142 J | 0.122 J | 1.15 J | 1.67 | 1.69 J | 1.42 J | 1.42 |
| Total DDTs (U = 0) | -- | 21 | 13 J | 8.33 J | 8.22 J | 109 | 95 | 123 | 72 J |
| PCB Congeners - Low Resolution (µg/kg) | | | | | | | | | |
| PCB-018 | SW8270CSIM | -- | 0.071 J | 0.057 J | 0.085 J | 0.39 | 0.29 | 0.36 | 0.10 J |
| PCB-028 | SW8270CSIM | -- | 0.070 J | 0.12 J | 0.078 J | 0.79 | 0.78 | 0.85 | 0.66 |
| PCB-037 | SW8270CSIM | -- | 0.035 UJ | 0.035 U | 0.035 U | 0.12 J | 0.035 U | 0.081 J | 0.035 U |
| PCB-044 | SW8270CSIM | -- | 0.092 UJ | 0.092 U | 0.092 U | 1.1 | 1.1 | 1.2 | 0.26 |
| PCB-049 | SW8270CSIM | -- | 0.27 J | 0.21 | 0.27 | 1.4 | 1.4 | 1.7 | 0.90 |
| PCB-052 | SW8270CSIM | -- | 0.28 J | 0.30 | 0.33 | 1.7 | 1.7 | 1.6 | 1.6 |
| PCB-066 | SW8270CSIM | -- | 0.28 J | 0.21 | 0.25 | 1.7 | 1.7 | 1.8 | 1.3 |
| PCB-070 | SW8270CSIM | -- | 0.13 J | 0.062 J | 0.11 J | 1.2 | 1.3 | 1.3 | 1.3 |
| PCB-074 | SW8270CSIM | -- | 0.14 J | 0.077 J | 0.13 J | 0.90 | 0.95 | 1.0 | 0.88 |
| PCB-077 | SW8270CSIM | -- | 0.085 UJ | 0.085 U | 0.085 U | 0.51 | 0.6 | 0.43 | 0.38 |
| PCB-081 | SW8270CSIM | -- | 0.064 UJ | 0.064 U | 0.064 U | 0.064 U | 0.064 U | 0.064 U | 0.064 U |
| PCB-087 | SW8270CSIM | -- | 0.34 J | 0.28 | 0.17 J | 2.4 | 2.6 | 2.1 | 1.9 |
| PCB-099 | SW8270CSIM | -- | 0.49 J | 0.47 | 0.53 | 2.8 | 3.3 | 3.1 | 3.3 |
| PCB-101 | SW8270CSIM | -- | 0.82 J | 0.81 | 0.75 | 4.9 | 5.2 | 4.4 | 4.1 |
| PCB-105 | SW8270CSIM | -- | 0.28 J | 0.28 | 0.27 | 1.6 | 1.7 | 1.6 | 1.8 |
| PCB-110 | SW8270CSIM | -- | 0.54 J | 0.52 | 0.48 | 3.3 | 3.8 | 3.3 | 1.5 |
| PCB-114 | SW8270CSIM | -- | 0.036 UJ | 0.036 U | 0.036 U | 0.093 J | 0.036 U | 0.11 J | 0.036 U |
| PCB-118 | SW8270CSIM | -- | 0.89 J | 0.76 | 0.71 | 4.7 | 5.2 | 4.6 | 5.4 |
| PCB-119 | SW8270CSIM | -- | 0.046 UJ | 0.046 U | 0.046 U | 0.18 J | 0.18 J | 0.17 J | 0.16 J |
| PCB-123 | SW8270CSIM | -- | 0.095 J | 0.11 J | 0.067 J | 0.44 | 0.54 | 0.49 | 0.77 |
| PCB-126 | SW8270CSIM | -- | 0.034 UJ | 0.034 U | 0.034 U | 0.052 J | 0.034 U | 0.034 U | 0.034 U |

**Table 26
2014 Fish Tissue Chemistry Results**

| FINAL VALIDATED DATA | | | Outer Los Angeles Harbor | | | | | | |
|---|----------------------------------|----------------------------------|----------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| | | | CP_2014_Fish | CP_2014_Fish | CP_2014_Fish | CP_2014_Fish | CP_2014_Fish | CP_2014_Fish | CP_2014_Fish |
| Area | Sample ID | Sample ID | CP-FF-CH-C1-20141008 | CP-FF-CH-C2-20141008 | CP-FF-CH-C3-20141008 | CP-FF-WC-C1-20141008 | CP-FF-WC-C2-20141008 | CP-FF-WC-C3-20141008 | CP-WO-WS-C1-20141008 |
| Common Name | California halibut | California halibut | California halibut | White croaker | White croaker | White croaker | White croaker | White croaker | White surfperch |
| Scientific Name | <i>Paralichthys californicus</i> | <i>Paralichthys californicus</i> | <i>Paralichthys californicus</i> | <i>Genyonemus lineatus</i> | <i>Genyonemus lineatus</i> | <i>Genyonemus lineatus</i> | <i>Genyonemus lineatus</i> | <i>Genyonemus lineatus</i> | <i>Phanerodon furcatus</i> |
| Tissue Type | Fillet without skin | Fillet without skin | Fillet without skin | Fillet without skin | Fillet without skin | Fillet without skin | Fillet without skin | Fillet without skin | Whole Body |
| Sample Date | 10/8/2014 | 10/8/2014 | 10/8/2014 | 10/8/2014 | 10/8/2014 | 10/8/2014 | 10/8/2014 | 10/8/2014 | 10/8/2014 |
| X | -118.2754 | -118.2754 | -118.2754 | -118.2754 | -118.2754 | -118.2754 | -118.2754 | -118.2754 | -118.2754 |
| Y | 33.709332 | 33.709332 | 33.709332 | 33.709332 | 33.709332 | 33.709332 | 33.709332 | 33.709332 | 33.709332 |
| Method | TMDL Fish Tissue Target | | | | | | | | |
| PCB-128 | SW8270CSIM | -- | 0.21 J | 0.22 | 0.21 | 1.1 | 1.2 | 1.0 | 0.96 |
| PCB-132/153 | SW8270CSIM | -- | 1.9 J | 1.7 | 1.8 | 9.4 | 11 | 9.0 | 10 |
| PCB-138/158 | SW8270CSIM | -- | 1.3 J | 1.2 | 1.1 | 6.4 | 7.3 | 6.2 | 7.1 |
| PCB-149 | SW8270CSIM | -- | 0.58 J | 0.53 | 0.42 | 3.5 | 3.9 | 3.2 | 1.4 |
| PCB-151 | SW8270CSIM | -- | 0.21 J | 0.22 | 0.17 J | 1.1 | 1.2 | 0.95 | 0.87 |
| PCB-156 | SW8270CSIM | -- | 0.11 J | 0.088 J | 0.078 J | 0.51 | 0.54 | 0.47 | 0.62 |
| PCB-157 | SW8270CSIM | -- | 0.053 J | 0.051 U | 0.051 U | 0.12 J | 0.14 J | 0.14 J | 0.15 J |
| PCB-167 | SW8270CSIM | -- | 0.088 J | 0.042 U | 0.049 J | 0.26 | 0.36 | 0.33 | 0.38 |
| PCB-168 | SW8270CSIM | -- | 0.045 UJ | 0.045 U | 0.045 U | 0.045 U | 0.045 U | 0.045 U | 0.045 U |
| PCB-169 | SW8270CSIM | -- | 0.040 J | 0.045 J | 0.033 U | 0.18 J | 0.16 J | 0.15 J | 0.13 J |
| PCB-170 | SW8270CSIM | -- | 0.25 J | 0.20 | 0.18 J | 1.1 | 1.0 | 0.93 | 1.1 |
| PCB-177 | SW8270CSIM | -- | 0.11 J | 0.12 J | 0.10 J | 0.56 | 0.64 | 0.51 | 0.42 |
| PCB-180 | SW8270CSIM | -- | 0.53 J | 0.46 | 0.44 | 2.7 | 2.6 | 2.0 | 2.6 |
| PCB-183 | SW8270CSIM | -- | 0.19 J | 0.15 J | 0.14 J | 0.82 | 0.86 | 0.62 | 0.83 |
| PCB-187 | SW8270CSIM | -- | 0.52 J | 0.45 | 0.43 | 2.2 | 2.3 | 2.0 | 2.0 |
| PCB-189 | SW8270CSIM | -- | 0.036 J | 0.025 U | 0.025 U | 0.045 J | 0.035 J | 0.059 J | 0.083 J |
| PCB-194 | SW8270CSIM | -- | 0.12 J | 0.083 J | 0.090 J | 0.41 | 0.42 | 0.35 | 0.36 |
| PCB-195 | SW8270CSIM | -- | 0.032 UJ | 0.032 U | 0.032 U | 0.17 J | 0.15 J | 0.14 J | 0.15 J |
| PCB-201 | SW8270CSIM | -- | 0.044 J | 0.044 U | 0.044 U | 0.12 J | 0.11 J | 0.085 J | 0.10 J |
| PCB-206 | SW8270CSIM | -- | 0.077 J | 0.11 J | 0.065 J | 0.24 | 0.24 | 0.25 | 0.25 |
| Total PCB congener - low resolution (U = 0) | -- | 3.6 | 11.1 J | 9.8 J | 9.5 J | 61.2 J | 66.5 J | 58.6 J | 55.8 J |

Table 26
2014 Fish Tissue Chemistry Results

| FINAL VALIDATED DATA | | Area | Consolidated Slip | | | | | | |
|---|------------------|------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------------|----------------------------------|
| | | Sample ID | CP_2014_Fish | CP_2014_Fish | CS_2014_Fish | CS_2014_Fish | CS_2014_Fish | OB_2014_Fish | OB_2014_Fish |
| | | Sample ID | CP-WO-WS-C2-20141008 | CP-WO-WS-C3-20141008 | CS-FF-WC-C1-20141015 | CS-FF-WC-C2-20141015 | CS-FF-WC-C3-20141015 | OB-FF-CH-C1-20141008 | OB-FF-CH-C2-20141008 |
| | | Common Name | White surfperch | White surfperch | White croaker | White croaker | White croaker | California halibut | California halibut |
| | | Scientific Name | <i>Phanerodon furcatus</i> | <i>Phanerodon furcatus</i> | <i>Genyonemus lineatus</i> | <i>Genyonemus lineatus</i> | <i>Genyonemus lineatus</i> | <i>Paralichthys californicus</i> | <i>Paralichthys californicus</i> |
| | | Tissue Type | Whole Body | Whole Body | Fillet without skin | Fillet without skin | Fillet without skin | Fillet without skin | Fillet without skin |
| | | Sample Date | 10/8/2014 | 10/8/2014 | 10/15/2014 | 10/15/2014 | 10/15/2014 | 10/8/2014 | 10/8/2014 |
| | | X | -118.2754 | -118.2754 | -118.248422 | -118.248422 | -118.248422 | -118.23171 | -118.23171 |
| | | Y | 33.709332 | 33.709332 | 33.772419 | 33.772419 | 33.772419 | 33.734535 | 33.734535 |
| | | TMDL Fish Tissue | | | | | | | |
| | | Method | | | | | | | |
| | | Target | | | | | | | |
| Conventional Parameters (pct) | | | | | | | | | |
| Lipids | NOAA Lipids 1993 | -- | 1.2 | 1.3 | 2.2 | 1.8 | 3.2 | 0.38 | 0.23 |
| Moisture (water) content | D2216 | -- | 76.9 | 77.3 | 76.8 | 78.1 | 77.2 | 76.8 | 78.5 |
| Pesticides (µg/kg) | | | | | | | | | |
| 2,4'-DDD (o,p'-DDD) | SW8270CSIM | -- | 0.075 J | 0.05 J | 1.3 J | 0.26 J | 0.29 J | 0.10 J | 0.086 J |
| 2,4'-DDE (o,p'-DDE) | SW8270CSIM | -- | 0.65 | 0.70 | 8.4 J | 2.1 J | 4.7 J | 0.92 J | 0.47 J |
| 2,4'-DDT (o,p'-DDT) | SW8270CSIM | -- | 0.032 U | 0.032 U | 0.032 UJ | 0.032 UJ | 0.032 UJ | 0.032 U | 0.032 U |
| 4,4'-DDD (p,p'-DDD) | SW8270CSIM | -- | 0.45 | 0.55 | 18 J | 4.1 J | 2.2 J | 0.20 J | 0.10 J |
| 4,4'-DDE (p,p'-DDE) | SW8270CSIM | -- | 39 | 55 | 230 J | 54 J | 66 J | 15 J | 7.2 J |
| 4,4'-DDT (p,p'-DDT) | SW8270CSIM | -- | 0.15 J | 0.19 J | 1.5 J | 0.37 J | 0.22 J | 0.081 U | 0.081 U |
| Chlordane, alpha- (Chlordane, cis-) | SW8270CSIM | -- | 0.18 J | 0.21 | 6.7 J | 1.5 J | 2.0 J | 0.082 J | 0.11 J |
| Chlordane, beta- (Chlordane, trans-) | SW8270CSIM | -- | 0.046 U | 0.046 U | 3.2 J | 0.64 J | 0.78 J | 0.046 UJ | 0.046 UJ |
| Dieldrin | SW8270CSIM | 0.46 | 0.090 U | 0.090 U | 0.090 UJ | 0.090 U | 0.090 U | 0.090 U | 0.090 U |
| Nonachlor, cis- | SW8270CSIM | -- | 0.14 J | 0.19 J | 3.8 J | 0.75 J | 0.94 J | 0.14 J | 0.063 J |
| Nonachlor, trans- | SW8270CSIM | -- | 0.22 | 0.31 | 6.9 J | 1.3 J | 1.5 J | 0.20 J | 0.095 J |
| Oxychlordane | SW8270CSIM | -- | 0.076 U | 0.076 U | 0.076 UJ | 0.076 UJ | 0.076 UJ | 0.076 UJ | 0.076 UJ |
| Toxaphene | SW8081A | 6.1 | 0.61 U | 0.61 U | 0.61 U | 0.61 U | 0.61 U | 0.61 U | 0.61 U |
| Total chlordane (U = 0) | -- | 5.6 | 0.54 J | 0.71 J | 20.6 J | 4.2 J | 5.2 J | 0.42 J | 0.27 J |
| Total DDTs (U = 0) | -- | 21 | 40 J | 56 J | 259 J | 61 J | 73 J | 16 J | 7.9 J |
| PCB Congeners - Low Resolution (µg/kg) | | | | | | | | | |
| PCB-018 | SW8270CSIM | -- | 0.066 J | 0.11 J | 0.61 | 0.43 J | 0.91 | 0.087 J | 0.13 J |
| PCB-028 | SW8270CSIM | -- | 0.46 | 0.32 | 1.6 | 0.91 | 1.5 | 0.14 J | 0.19 J |
| PCB-037 | SW8270CSIM | -- | 0.035 U | 0.072 J | 0.035 U | 0.37 | 0.035 U | 0.035 UJ | 0.035 UJ |
| PCB-044 | SW8270CSIM | -- | 0.19 J | 0.15 J | 2.8 J | 1.4 J | 2.2 J | 0.10 J | 0.092 UJ |
| PCB-049 | SW8270CSIM | -- | 0.87 | 0.44 | 4.2 J | 4.0 J | 2.1 J | 0.39 J | 0.32 J |
| PCB-052 | SW8270CSIM | -- | 1.3 | 0.81 | 6.2 J | 6.1 J | 3.0 J | 0.36 J | 0.34 J |
| PCB-066 | SW8270CSIM | -- | 1.7 | 0.77 | 4.7 J | 2.2 J | 2.3 J | 0.46 J | 0.34 J |
| PCB-070 | SW8270CSIM | -- | 1.1 | 0.65 | 2.9 J | 1.2 J | 2.4 J | 0.10 J | 0.13 J |
| PCB-074 | SW8270CSIM | -- | 1.1 | 0.54 | 2.7 J | 1.2 J | 1.5 J | 0.20 J | 0.15 J |
| PCB-077 | SW8270CSIM | -- | 0.23 | 0.16 J | 2.0 J | 1.7 J | 0.40 J | 0.085 UJ | 0.085 UJ |
| PCB-081 | SW8270CSIM | -- | 0.064 U | 0.064 U | 0.064 U | 0.064 U | 0.064 U | 0.064 UJ | 0.064 UJ |
| PCB-087 | SW8270CSIM | -- | 0.99 | 1.0 | 4.0 J | 1.9 J | 1.8 J | 0.42 J | 0.38 J |
| PCB-099 | SW8270CSIM | -- | 2.4 | 2.1 | 9.4 J | 6.3 J | 2.8 J | 1.0 J | 0.58 J |
| PCB-101 | SW8270CSIM | -- | 2.5 | 2.6 | 15 J | 9.4 J | 4.0 J | 1.2 J | 0.98 J |
| PCB-105 | SW8270CSIM | -- | 1.2 | 1.2 | 4.5 J | 2.3 J | 1.4 J | 0.41 J | 0.31 J |
| PCB-110 | SW8270CSIM | -- | 0.5 | 0.77 | 9.8 J | 5.1 J | 3.0 J | 0.92 J | 0.63 J |
| PCB-114 | SW8270CSIM | -- | 0.036 U | 0.036 U | 0.036 U | 0.036 UJ | 0.12 J | 0.036 UJ | 0.036 UJ |
| PCB-118 | SW8270CSIM | -- | 4.0 | 3.9 | 13 J | 6.3 J | 3.8 J | 1.3 J | 0.87 J |
| PCB-119 | SW8270CSIM | -- | 0.10 J | 0.12 J | 0.71 J | 0.72 J | 0.15 J | 0.079 J | 0.058 J |
| PCB-123 | SW8270CSIM | -- | 0.44 | 0.55 | 1.1 J | 0.49 J | 0.49 J | 0.15 J | 0.11 J |
| PCB-126 | SW8270CSIM | -- | 0.034 U | 0.074 J | 0.034 U | 0.034 UJ | 0.034 U | 0.034 UJ | 0.034 UJ |

**Table 26
2014 Fish Tissue Chemistry Results**

| FINAL VALIDATED DATA | | | Area | | Consolidated Slip | | | | |
|---|------------|-------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------------|----------------------------------|
| Sample ID | Method | TMDL Fish Tissue Target | CP_2014_Fish | CP_2014_Fish | CS_2014_Fish | CS_2014_Fish | CS_2014_Fish | OB_2014_Fish | OB_2014_Fish |
| Sample ID | | | CP-WO-WS-C2-20141008 | CP-WO-WS-C3-20141008 | CS-FF-WC-C1-20141015 | CS-FF-WC-C2-20141015 | CS-FF-WC-C3-20141015 | OB-FF-CH-C1-20141008 | OB-FF-CH-C2-20141008 |
| Common Name | | | White surfperch | White surfperch | White croaker | White croaker | White croaker | California halibut | California halibut |
| Scientific Name | | | <i>Phanerodon furcatus</i> | <i>Phanerodon furcatus</i> | <i>Genyonemus lineatus</i> | <i>Genyonemus lineatus</i> | <i>Genyonemus lineatus</i> | <i>Paralichthys californicus</i> | <i>Paralichthys californicus</i> |
| Tissue Type | | | Whole Body | Whole Body | Fillet without skin | Fillet without skin | Fillet without skin | Fillet without skin | Fillet without skin |
| Sample Date | | | 10/8/2014 | 10/8/2014 | 10/15/2014 | 10/15/2014 | 10/15/2014 | 10/8/2014 | 10/8/2014 |
| X | | | -118.2754 | -118.2754 | -118.248422 | -118.248422 | -118.248422 | -118.23171 | -118.23171 |
| Y | | | 33.709332 | 33.709332 | 33.772419 | 33.772419 | 33.772419 | 33.734535 | 33.734535 |
| | | | | | | | | | |
| PCB-128 | SW8270CSIM | -- | 0.54 | 0.69 | 2.5 J | 1.4 J | 0.84 J | 0.28 J | 0.23 J |
| PCB-132/153 | SW8270CSIM | -- | 5.5 | 7.8 | 34 J | 26 J | 6.7 J | 3.0 J | 1.8 J |
| PCB-138/158 | SW8270CSIM | -- | 3.8 | 5.1 | 20 J | 13 J | 4.8 J | 2.0 J | 1.3 J |
| PCB-149 | SW8270CSIM | -- | 0.61 | 0.66 | 13 J | 11 J | 2.6 J | 0.98 J | 0.62 J |
| PCB-151 | SW8270CSIM | -- | 0.40 | 0.54 | 4.6 J | 4.0 J | 0.80 J | 0.39 J | 0.23 J |
| PCB-156 | SW8270CSIM | -- | 0.35 | 0.51 | 1.3 J | 0.77 J | 0.33 J | 0.13 J | 0.096 J |
| PCB-157 | SW8270CSIM | -- | 0.087 J | 0.13 J | 0.25 J | 0.15 J | 0.11 J | 0.051 UJ | 0.051 UJ |
| PCB-167 | SW8270CSIM | -- | 0.22 | 0.36 | 0.92 J | 0.61 J | 0.25 J | 0.13 J | 0.042 UJ |
| PCB-168 | SW8270CSIM | -- | 0.045 U | 0.045 U | 0.045 UJ | 0.045 UJ | 0.045 UJ | 0.045 UJ | 0.045 UJ |
| PCB-169 | SW8270CSIM | -- | 0.091 J | 0.14 J | 0.62 J | 0.46 J | 0.15 J | 0.045 J | 0.061 J |
| PCB-170 | SW8270CSIM | -- | 0.63 | 1.0 | 4.2 J | 3.1 J | 0.81 J | 0.34 J | 0.24 J |
| PCB-177 | SW8270CSIM | -- | 0.2 | 0.26 | 2.0 J | 1.4 J | 0.50 J | 0.20 J | 0.12 J |
| PCB-180 | SW8270CSIM | -- | 1.5 | 2.0 | 10 J | 8.4 J | 1.6 J | 0.78 J | 0.45 J |
| PCB-183 | SW8270CSIM | -- | 0.44 | 0.72 | 3.2 J | 2.6 J | 0.5 J | 0.29 J | 0.18 J |
| PCB-187 | SW8270CSIM | -- | 1.0 | 1.5 | 8.8 J | 8.2 J | 1.8 J | 0.79 J | 0.46 J |
| PCB-189 | SW8270CSIM | -- | 0.037 J | 0.096 J | 0.15 J | 0.12 J | 0.054 J | 0.042 J | 0.031 J |
| PCB-194 | SW8270CSIM | -- | 0.19 J | 0.34 | 1.5 J | 1.3 J | 0.35 J | 0.14 J | 0.095 J |
| PCB-195 | SW8270CSIM | -- | 0.092 J | 0.11 J | 0.65 J | 0.52 J | 0.14 J | 0.032 UJ | 0.032 UJ |
| PCB-201 | SW8270CSIM | -- | 0.083 J | 0.10 J | 0.31 J | 0.28 J | 0.083 J | 0.053 J | 0.044 UJ |
| PCB-206 | SW8270CSIM | -- | 0.21 | 0.15 J | 0.84 | 0.54 | 0.26 | 0.12 J | 0.069 J |
| Total PCB congener - low resolution (U = 0) | -- | 3.6 | 35.1 J | 38.5 J | 194.1 J | 135.9 J | 56.5 J | 17.0 J | 11.5 J |

**Table 26
2014 Fish Tissue Chemistry Results**

| FINAL VALIDATED DATA | | | Outer Harbor - LB | | | | | | |
|---|----------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------|----------|
| Area | | | | | | | | | |
| Sample ID | OB_2014_Fish | OB_2014_Fish | OB_2014_Fish | OB_2014_Fish | OB_2014_Fish | OB_2014_Fish | OB_2014_Fish | | |
| Sample ID | OB-FF-CH-C3-20141008 | OB-FF-WC-C1-20141008 | OB-FF-WC-C2-20141008 | OB-FF-WC-C3-20141008 | OB-WO-WS-C1-20141008 | OB-WO-WS-C2-20141008 | OB-WO-WS-C3-20141008 | | |
| Common Name | California halibut | White croaker | White croaker | White croaker | White surfperch | White surfperch | White surfperch | | |
| Scientific Name | <i>Paralichthys californicus</i> | <i>Genyonemus lineatus</i> | <i>Genyonemus lineatus</i> | <i>Genyonemus lineatus</i> | <i>Phanerodon furcatus</i> | <i>Phanerodon furcatus</i> | <i>Phanerodon furcatus</i> | | |
| Tissue Type | Fillet without skin | Fillet without skin | Fillet without skin | Fillet without skin | Whole Body | Whole Body | Whole Body | | |
| Sample Date | 10/8/2014 | 10/8/2014 | 10/8/2014 | 10/8/2014 | 10/8/2014 | 10/8/2014 | 10/8/2014 | | |
| X | -118.23171 | -118.23171 | -118.23171 | -118.23171 | -118.23171 | -118.23171 | -118.23171 | | |
| Y | 33.734535 | 33.734535 | 33.734535 | 33.734535 | 33.734535 | 33.734535 | 33.734535 | | |
| TMDL Fish Tissue Target | | | | | | | | | |
| Method | | | | | | | | | |
| Conventional Parameters (pct) | | | | | | | | | |
| Lipids | NOAA Lipids 1993 | -- | 0.25 | 3.7 | 5.3 | 7.2 | 7.4 | 6.6 | 2.0 |
| Moisture (water) content | D2216 | -- | 78.8 | 77.2 | 75.8 | 74.9 | 71.7 | 72.2 | 76.4 |
| Pesticides (µg/kg) | | | | | | | | | |
| 2,4'-DDD (o,p'-DDD) | SW8270CSIM | -- | 0.20 J | 0.092 J | 0.15 J | 1.8 J | 0.27 J | 0.14 J | 0.28 J |
| 2,4'-DDE (o,p'-DDE) | SW8270CSIM | -- | 0.38 J | 11 J | 10 J | 13 J | 5.4 J | 5.3 J | 1.7 J |
| 2,4'-DDT (o,p'-DDT) | SW8270CSIM | -- | 0.032 U | 0.032 U | 0.032 U | 0.032 UJ | 0.032 U | 0.032 U | 0.032 U |
| 4,4'-DDD (p,p'-DDD) | SW8270CSIM | -- | 0.11 J | 2.4 J | 1.4 J | 1.9 J | 2.2 J | 1.9 J | 0.99 J |
| 4,4'-DDE (p,p'-DDE) | SW8270CSIM | -- | 6.0 J | 200 J | 110 J | 150 J | 160 J | 170 J | 86 J |
| 4,4'-DDT (p,p'-DDT) | SW8270CSIM | -- | 0.081 U | 0.60 | 0.17 J | 0.26 J | 0.19 J | 0.63 | 0.26 |
| Chlordane, alpha- (Chlordane, cis-) | SW8270CSIM | -- | 0.067 UJ | 0.38 J | 0.46 J | 0.58 J | 1.0 J | 0.82 J | 0.40 J |
| Chlordane, beta- (Chlordane, trans-) | SW8270CSIM | -- | 0.046 UJ | 0.10 J | 0.19 J | 0.25 J | 0.14 J | 0.11 J | 0.049 J |
| Dieldrin | SW8270CSIM | 0.46 | 0.090 U | 0.090 U | 0.090 U | 0.090 U | 0.090 U | 0.090 U | 0.090 U |
| Nonachlor, cis- | SW8270CSIM | -- | 0.024 UJ | 0.36 J | 0.39 J | 0.42 J | 0.86 J | 0.77 J | 0.48 J |
| Nonachlor, trans- | SW8270CSIM | -- | 0.049 J | 0.44 J | 0.43 J | 0.48 J | 1.0 J | 0.97 J | 0.57 J |
| Oxychlordane | SW8270CSIM | -- | 0.076 UJ | 0.076 UJ | 0.076 UJ | 0.076 UJ | 0.076 UJ | 0.076 UJ | 0.076 UJ |
| Toxaphene | SW8081A | 6.1 | 0.61 U | 0.61 U | 0.61 U | 0.61 U | 0.61 U | 0.61 U | 0.61 U |
| Total chlordane (U = 0) | -- | 5.6 | 0.049 J | 1.28 J | 1.47 J | 1.73 J | 3.0 J | 2.67 J | 1.50 J |
| Total DDTs (U = 0) | -- | 21 | 6.7 J | 214 J | 122 J | 167 J | 168 J | 178 J | 89 J |
| PCB Congeners - Low Resolution (µg/kg) | | | | | | | | | |
| PCB-018 | SW8270CSIM | -- | 0.064 J | 0.26 J | 0.75 J | 0.96 J | 0.46 J | 0.16 J | 0.18 J |
| PCB-028 | SW8270CSIM | -- | 0.090 J | 0.92 J | 1.8 J | 2.2 J | 2.9 J | 1.2 J | 0.88 J |
| PCB-037 | SW8270CSIM | -- | 0.035 UJ | 0.035 UJ | 0.035 UJ | 0.035 UJ | 0.31 J | 0.17 J | 0.071 J |
| PCB-044 | SW8270CSIM | -- | 0.092 UJ | 0.94 J | 1.8 J | 2.3 J | 1.2 J | 0.58 J | 0.31 J |
| PCB-049 | SW8270CSIM | -- | 0.12 J | 1.9 J | 2.9 J | 2.9 J | 4.5 J | 2.4 J | 1.6 J |
| PCB-052 | SW8270CSIM | -- | 0.18 J | 2.0 J | 3.0 J | 3.5 J | 5.6 J | 2.5 J | 1.9 J |
| PCB-066 | SW8270CSIM | -- | 0.17 J | 2.8 J | 3.5 J | 4.0 J | 5.3 J | 2.8 J | 2.1 J |
| PCB-070 | SW8270CSIM | -- | 0.086 J | 1.6 J | 2.4 J | 3.0 J | 4.8 J | 2.1 J | 1.5 J |
| PCB-074 | SW8270CSIM | -- | 0.10 J | 1.4 J | 1.8 J | 2.1 J | 3.3 J | 1.7 J | 1.3 J |
| PCB-077 | SW8270CSIM | -- | 0.085 UJ | 0.78 J | 0.97 J | 1.2 J | 1.5 J | 0.64 J | 0.45 J |
| PCB-081 | SW8270CSIM | -- | 0.064 UJ | 0.064 UJ | 0.064 UJ | 0.064 UJ | 0.064 UJ | 0.064 UJ | 0.064 UJ |
| PCB-087 | SW8270CSIM | -- | 0.23 J | 4.0 J | 3.8 J | 4.0 J | 5.2 J | 2.6 J | 2.3 J |
| PCB-099 | SW8270CSIM | -- | 0.64 J | 5.7 J | 6.4 J | 6.5 J | 12 J | 6.4 J | 5.2 J |
| PCB-101 | SW8270CSIM | -- | 0.73 J | 6.8 J | 9.1 J | 9.5 J | 17 J | 7.3 J | 6.0 J |
| PCB-105 | SW8270CSIM | -- | 0.27 J | 2.4 J | 2.9 J | 3.1 J | 6.0 J | 2.8 J | 2.5 J |
| PCB-110 | SW8270CSIM | -- | 0.36 J | 4.5 J | 6.1 J | 6.7 J | 6.7 J | 2.6 J | 2.1 J |
| PCB-114 | SW8270CSIM | -- | 0.036 UJ | 0.036 UJ | 0.19 J | 0.19 J | 0.37 J | 0.082 J | 0.036 UJ |
| PCB-118 | SW8270CSIM | -- | 0.79 J | 7.8 J | 9.2 J | 9.6 J | 20 J | 8.9 J | 8.1 J |
| PCB-119 | SW8270CSIM | -- | 0.057 J | 0.27 J | 0.36 J | 0.36 J | 0.61 J | 0.34 J | 0.26 J |
| PCB-123 | SW8270CSIM | -- | 0.086 J | 0.9 J | 1.1 J | 1.0 J | 2.3 J | 1.1 J | 1.0 J |
| PCB-126 | SW8270CSIM | -- | 0.034 UJ | 0.034 UJ | 0.034 UJ | 0.034 UJ | 0.088 J | 0.034 UJ | 0.034 UJ |

Table 26
2014 Fish Tissue Chemistry Results

| FINAL VALIDATED DATA | | | Outer Harbor - LB | | | | | | |
|---|----------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|--------------|----------|
| Area | Sample ID | OB_2014_Fish | OB_2014_Fish | OB_2014_Fish | OB_2014_Fish | OB_2014_Fish | OB_2014_Fish | OB_2014_Fish | |
| Sample ID | OB-FF-CH-C3-20141008 | OB-FF-WC-C1-20141008 | OB-FF-WC-C2-20141008 | OB-FF-WC-C3-20141008 | OB-WO-WS-C1-20141008 | OB-WO-WS-C2-20141008 | OB-WO-WS-C3-20141008 | | |
| Common Name | California halibut | White croaker | White croaker | White croaker | White surfperch | White surfperch | White surfperch | | |
| Scientific Name | <i>Paralichthys californicus</i> | <i>Genyonemus lineatus</i> | <i>Genyonemus lineatus</i> | <i>Genyonemus lineatus</i> | <i>Phanerodon furcatus</i> | <i>Phanerodon furcatus</i> | <i>Phanerodon furcatus</i> | | |
| Tissue Type | Fillet without skin | Fillet without skin | Fillet without skin | Fillet without skin | Whole Body | Whole Body | Whole Body | | |
| Sample Date | 10/8/2014 | 10/8/2014 | 10/8/2014 | 10/8/2014 | 10/8/2014 | 10/8/2014 | 10/8/2014 | | |
| X | -118.23171 | -118.23171 | -118.23171 | -118.23171 | -118.23171 | -118.23171 | -118.23171 | | |
| Y | 33.734535 | 33.734535 | 33.734535 | 33.734535 | 33.734535 | 33.734535 | 33.734535 | | |
| TMDL Fish Tissue Target | | | | | | | | | |
| Method | | | | | | | | | |
| PCB-128 | SW8270CSIM | -- | 0.27 J | 2.0 J | 2.0 J | 2.1 J | 3.6 J | 1.8 J | 1.5 J |
| PCB-132/153 | SW8270CSIM | -- | 2.8 J | 18 J | 21 J | 22 J | 43 J | 20 J | 17 J |
| PCB-138/158 | SW8270CSIM | -- | 1.6 J | 12 J | 14 J | 14 J | 28 J | 13 J | 11 J |
| PCB-149 | SW8270CSIM | -- | 0.42 J | 5.9 J | 7.1 J | 7.7 J | 7.3 J | 3.4 J | 1.9 J |
| PCB-151 | SW8270CSIM | -- | 0.19 J | 1.7 J | 2.3 J | 2.4 J | 4.3 J | 1.9 J | 1.5 J |
| PCB-156 | SW8270CSIM | -- | 0.11 J | 0.83 J | 0.93 J | 1.0 J | 2.2 J | 0.99 J | 0.97 J |
| PCB-157 | SW8270CSIM | -- | 0.061 J | 0.22 J | 0.20 J | 0.24 J | 0.47 J | 0.25 J | 0.20 J |
| PCB-167 | SW8270CSIM | -- | 0.042 UJ | 0.042 UJ | 0.66 J | 0.72 J | 1.3 J | 0.65 J | 0.56 J |
| PCB-168 | SW8270CSIM | -- | 0.045 UJ | 0.045 UJ | 0.045 UJ | 0.045 UJ | 0.045 UJ | 0.045 UJ | 0.045 UJ |
| PCB-169 | SW8270CSIM | -- | 0.069 J | 0.42 J | 0.41 J | 0.49 J | 0.57 J | 0.5 J | 0.24 J |
| PCB-170 | SW8270CSIM | -- | 0.24 J | 2.4 J | 2.7 J | 2.9 J | 5.4 J | 3.0 J | 2.1 J |
| PCB-177 | SW8270CSIM | -- | 0.13 J | 1.3 J | 1.4 J | 1.6 J | 2.3 J | 1.2 J | 0.70 J |
| PCB-180 | SW8270CSIM | -- | 0.56 J | 4.8 J | 5.6 J | 6.4 J | 13 J | 7.0 J | 4.5 J |
| PCB-183 | SW8270CSIM | -- | 0.23 J | 1.7 J | 1.9 J | 2.0 J | 4.1 J | 2.1 J | 1.4 J |
| PCB-187 | SW8270CSIM | -- | 0.71 J | 5.0 J | 5.4 J | 5.6 J | 10 J | 5.8 J | 3.5 J |
| PCB-189 | SW8270CSIM | -- | 0.038 J | 0.082 J | 0.12 J | 0.15 J | 0.25 J | 0.17 J | 0.12 J |
| PCB-194 | SW8270CSIM | -- | 0.11 J | 0.99 J | 1.0 J | 1.2 J | 1.8 J | 1.4 J | 0.66 J |
| PCB-195 | SW8270CSIM | -- | 0.032 UJ | 0.38 J | 0.41 J | 0.42 J | 0.66 J | 0.50 J | 0.25 J |
| PCB-201 | SW8270CSIM | -- | 0.060 J | 0.25 J | 0.23 J | 0.23 J | 0.37 J | 0.25 J | 0.13 J |
| PCB-206 | SW8270CSIM | -- | 0.059 J | 0.74 J | 0.63 J | 0.76 J | 0.73 J | 0.80 J | 0.32 J |
| Total PCB congener - low resolution (U = 0) | -- | 3.6 | 11.6 J | 103.7 J | 126.1 J | 135.0 J | 229.5 J | 111.1 J | 86.3 J |

Table 26
2014 Fish Tissue Chemistry Results

| FINAL VALIDATED DATA | | | San Pedro Bay | | | | | | |
|---|----------------------------------|----------------------------------|----------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------|---------|
| Area | Sample ID | Sample ID | Sample ID | Sample ID | Sample ID | Sample ID | Sample ID | | |
| | SP_2014_Fish | SP_2014_Fish | SP_2014_Fish | SP_2014_Fish | SP_2014_Fish | SP_2014_Fish | SP_2014_Fish | | |
| | SP-FF-CH-C1-20141008 | SP-FF-CH-C2-20141008 | SP-FF-CH-C3-20141008 | SP-FF-WC-C1-20141008 | SP-FF-WC-C2-20141008 | SP-FF-WC-C3-20141008 | SP-WO-PP-C1-20141008 | | |
| Common Name | California halibut | California halibut | California halibut | White croaker | White croaker | White croaker | Pacific pompano | | |
| Scientific Name | <i>Paralichthys californicus</i> | <i>Paralichthys californicus</i> | <i>Paralichthys californicus</i> | <i>Genyonemus lineatus</i> | <i>Genyonemus lineatus</i> | <i>Genyonemus lineatus</i> | <i>Peprilus simillimus</i> | | |
| Tissue Type | Fillet without skin | Fillet without skin | Fillet without skin | Fillet without skin | Fillet without skin | Fillet without skin | Whole Body | | |
| Sample Date | 10/8/2014 | 10/8/2014 | 10/8/2014 | 10/8/2014 | 10/8/2014 | 10/8/2014 | 10/8/2014 | | |
| X | -118.17161 | -118.17161 | -118.17161 | -118.17161 | -118.17161 | -118.17161 | -118.17161 | | |
| Y | 33.752474 | 33.752474 | 33.752474 | 33.752474 | 33.752474 | 33.752474 | 33.752474 | | |
| TMDL Fish Tissue Target | | | | | | | | | |
| Method | | | | | | | | | |
| Conventional Parameters (pct) | | | | | | | | | |
| Lipids | NOAA Lipids 1993 | -- | 0.25 | 0.24 | 0.35 | 3.6 | 2.4 | 5.2 | 6.0 |
| Moisture (water) content | D2216 | -- | 78.0 | 78.1 | 78.3 | 76.7 | 77.7 | 76.0 | 70.7 |
| Pesticides (µg/kg) | | | | | | | | | |
| 2,4'-DDD (o,p'-DDD) | SW8270CSIM | -- | 0.049 UJ | 0.11 J | 0.11 J | 0.28 J | 0.17 J | 0.21 J | 0.31 |
| 2,4'-DDE (o,p'-DDE) | SW8270CSIM | -- | 0.33 J | 0.78 | 0.43 | 5.6 J | 2.7 J | 5.6 J | 7.2 |
| 2,4'-DDT (o,p'-DDT) | SW8270CSIM | -- | 0.032 UJ | 0.032 U | 0.032 U | 0.032 U | 0.032 U | 0.032 U | 0.032 U |
| 4,4'-DDD (p,p'-DDD) | SW8270CSIM | -- | 0.15 J | 0.20 J | 0.19 J | 3.6 J | 1.7 J | 3.2 J | 1.9 |
| 4,4'-DDE (p,p'-DDE) | SW8270CSIM | -- | 6.7 J | 17 | 7.8 | 86 J | 29 J | 54 J | 55 |
| 4,4'-DDT (p,p'-DDT) | SW8270CSIM | -- | 0.081 J | 0.081 U | 0.12 J | 0.16 J | 0.097 J | 0.081 U | 0.38 |
| Chlordane, alpha- (Chlordane, cis-) | SW8270CSIM | -- | 0.14 J | 0.16 J | 0.16 J | 2.7 J | 1.7 J | 2.5 J | 0.82 |
| Chlordane, beta- (Chlordane, trans-) | SW8270CSIM | -- | 0.046 J | 0.046 U | 0.048 J | 1.3 J | 0.78 J | 1.4 J | 0.48 |
| Dieldrin | SW8270CSIM | 0.46 | 0.090 J | 0.090 U | 0.090 U | 0.090 U | 0.090 U | 0.090 U | 0.090 U |
| Nonachlor, cis- | SW8270CSIM | -- | 0.17 J | 0.15 J | 0.12 J | 2.2 J | 1.0 J | 1.8 J | 0.51 |
| Nonachlor, trans- | SW8270CSIM | -- | 0.23 J | 0.19 J | 0.20 J | 2.7 J | 1.4 J | 2.3 J | 0.70 |
| Oxychlordane | SW8270CSIM | -- | 0.076 UJ | 0.076 U | 0.076 U | 0.076 UJ | 0.076 UJ | 0.076 UJ | 0.076 U |
| Toxaphene | SW8081A | 6.1 | 0.61 U | 0.61 U | 0.61 U | 0.61 U | 0.61 U | 0.61 U | 0.61 U |
| Total chlordane (U = 0) | -- | 5.6 | 0.54 J | 0.50 J | 0.53 J | 8.9 J | 4.9 J | 8.0 J | 2.51 |
| Total DDTs (U = 0) | -- | 21 | 7.2 J | 18 J | 8.7 J | 95.6 J | 34 J | 63 J | 64 |
| PCB Congeners - Low Resolution (µg/kg) | | | | | | | | | |
| PCB-018 | SW8270CSIM | -- | 0.073 J | 0.047 J | 0.19 J | 0.94 J | 0.63 J | 1.6 J | 0.46 |
| PCB-028 | SW8270CSIM | -- | 0.11 J | 0.055 U | 0.15 J | 3.2 J | 1.8 J | 4.2 J | 0.62 |
| PCB-037 | SW8270CSIM | -- | 0.035 U | 0.035 U | 0.035 U | 0.035 UJ | 0.035 UJ | 0.035 UJ | 0.035 U |
| PCB-044 | SW8270CSIM | -- | 0.092 U | 0.092 U | 0.20 J | 3.7 J | 2.3 J | 5.2 J | 0.72 |
| PCB-049 | SW8270CSIM | -- | 0.22 | 0.13 J | 0.44 | 4.7 J | 2.7 J | 6.6 J | 1.3 |
| PCB-052 | SW8270CSIM | -- | 0.29 | 0.11 J | 0.47 | 4.7 J | 3.1 J | 6.6 J | 1.3 |
| PCB-066 | SW8270CSIM | -- | 0.25 | 0.11 J | 0.46 | 5.3 J | 2.8 J | 6.4 J | 1.4 |
| PCB-070 | SW8270CSIM | -- | 0.10 J | 0.048 U | 0.18 J | 4.0 J | 2.1 J | 5.2 J | 0.83 |
| PCB-074 | SW8270CSIM | -- | 0.16 J | 0.061 J | 0.27 | 3.1 J | 1.5 J | 3.9 J | 0.64 |
| PCB-077 | SW8270CSIM | -- | 0.085 U | 0.085 U | 0.12 J | 0.79 J | 0.45 J | 0.93 J | 0.28 |
| PCB-081 | SW8270CSIM | -- | 0.064 U | 0.064 U | 0.064 U | 0.064 UJ | 0.064 UJ | 0.064 UJ | 0.064 U |
| PCB-087 | SW8270CSIM | -- | 0.21 | 0.073 J | 0.35 | 3.3 J | 1.6 J | 3.6 J | 1.1 |
| PCB-099 | SW8270CSIM | -- | 0.38 | 0.18 J | 1.1 | 6.6 J | 2.9 J | 7.4 J | 1.7 |
| PCB-101 | SW8270CSIM | -- | 0.53 | 0.26 | 1.3 | 8.9 J | 4.2 J | 10 J | 2.2 |
| PCB-105 | SW8270CSIM | -- | 0.19 J | 0.11 J | 0.42 | 3.2 J | 1.4 J | 3.7 J | 0.67 |
| PCB-110 | SW8270CSIM | -- | 0.33 | 0.19 J | 0.75 | 6.7 J | 3.4 J | 8.0 J | 1.9 |
| PCB-114 | SW8270CSIM | -- | 0.036 U | 0.036 U | 0.036 U | 0.21 J | 0.038 J | 0.23 J | 0.036 U |
| PCB-118 | SW8270CSIM | -- | 0.52 | 0.28 | 1.4 | 9.1 J | 3.6 J | 9.4 J | 1.9 |
| PCB-119 | SW8270CSIM | -- | 0.046 U | 0.046 U | 0.073 J | 0.38 J | 0.19 J | 0.41 J | 0.11 J |
| PCB-123 | SW8270CSIM | -- | 0.068 J | 0.047 U | 0.18 J | 1.1 J | 0.46 J | 1.1 J | 0.29 |
| PCB-126 | SW8270CSIM | -- | 0.034 U | 0.034 U | 0.034 U | 0.034 UJ | 0.034 UJ | 0.034 UJ | 0.034 U |

Table 26
2014 Fish Tissue Chemistry Results

| FINAL VALIDATED DATA | | | San Pedro Bay | | | | | | |
|---|----------------------------------|---------------------|----------------------|------------|-----------|-------------------------|-----------|-------------------------|---------|
| Area | Sample ID | Sample ID | Sample ID | Sample ID | Sample ID | Sample ID | Sample ID | Sample ID | |
| Common Name | Scientific Name | Tissue Type | Sample Date | X | Y | TMDL Fish Tissue Target | Method | TMDL Fish Tissue Target | |
| Common Name | Scientific Name | Tissue Type | Sample Date | X | Y | TMDL Fish Tissue Target | Method | TMDL Fish Tissue Target | |
| California halibut | <i>Paralichthys californicus</i> | Fillet without skin | 10/8/2014 | -118.17161 | 33.752474 | | | | |
| California halibut | <i>Paralichthys californicus</i> | Fillet without skin | 10/8/2014 | -118.17161 | 33.752474 | | | | |
| California halibut | <i>Paralichthys californicus</i> | Fillet without skin | 10/8/2014 | -118.17161 | 33.752474 | | | | |
| White croaker | <i>Genyonemus lineatus</i> | Fillet without skin | 10/8/2014 | -118.17161 | 33.752474 | | | | |
| White croaker | <i>Genyonemus lineatus</i> | Fillet without skin | 10/8/2014 | -118.17161 | 33.752474 | | | | |
| White croaker | <i>Genyonemus lineatus</i> | Fillet without skin | 10/8/2014 | -118.17161 | 33.752474 | | | | |
| Pacific pompano | <i>Peprilus simillimus</i> | Whole Body | 10/8/2014 | -118.17161 | 33.752474 | | | | |
| PCB-128 | SW8270CSIM | -- | 0.14 J | 0.095 J | 0.40 | 1.9 J | 0.85 J | 1.9 J | 0.49 |
| PCB-132/153 | SW8270CSIM | -- | 1.0 | 0.60 | 4.1 | 17 J | 6.5 J | 16 J | 3.8 |
| PCB-138/158 | SW8270CSIM | -- | 0.74 | 0.44 | 2.5 | 12 J | 4.9 J | 12 J | 2.7 |
| PCB-149 | SW8270CSIM | -- | 0.28 | 0.15 J | 0.87 | 5.7 J | 2.7 J | 6.2 J | 1.6 |
| PCB-151 | SW8270CSIM | -- | 0.099 J | 0.075 J | 0.33 | 1.7 J | 0.77 J | 1.8 J | 0.43 |
| PCB-156 | SW8270CSIM | -- | 0.066 U | 0.066 U | 0.14 J | 0.85 J | 0.36 J | 0.83 J | 0.18 J |
| PCB-157 | SW8270CSIM | -- | 0.051 U | 0.051 U | 0.051 U | 0.23 J | 0.11 J | 0.21 J | 0.068 J |
| PCB-167 | SW8270CSIM | -- | 0.047 J | 0.042 U | 0.042 U | 0.52 J | 0.042 UJ | 0.52 J | 0.042 U |
| PCB-168 | SW8270CSIM | -- | 0.045 U | 0.045 U | 0.045 U | 0.045 UJ | 0.045 UJ | 0.045 UJ | 0.045 U |
| PCB-169 | SW8270CSIM | -- | 0.033 U | 0.033 U | 0.097 J | 0.43 J | 0.16 J | 0.42 J | 0.058 J |
| PCB-170 | SW8270CSIM | -- | 0.14 J | 0.096 J | 0.39 | 2.5 J | 0.98 J | 2.3 J | 0.40 |
| PCB-177 | SW8270CSIM | -- | 0.077 J | 0.04 U | 0.23 | 1.1 J | 0.49 J | 1.1 J | 0.27 |
| PCB-180 | SW8270CSIM | -- | 0.26 | 0.20 J | 0.80 | 5.3 J | 2.0 J | 4.9 J | 0.82 |
| PCB-183 | SW8270CSIM | -- | 0.099 J | 0.052 J | 0.32 | 1.5 J | 0.57 J | 1.4 J | 0.27 |
| PCB-187 | SW8270CSIM | -- | 0.27 | 0.17 J | 1.1 | 4.3 J | 1.7 J | 4.3 J | 0.87 |
| PCB-189 | SW8270CSIM | -- | 0.025 U | 0.025 U | 0.030 J | 0.1 J | 0.042 J | 0.074 J | 0.027 J |
| PCB-194 | SW8270CSIM | -- | 0.064 J | 0.041 U | 0.15 J | 1.1 J | 0.46 J | 0.97 J | 0.15 J |
| PCB-195 | SW8270CSIM | -- | 0.032 U | 0.032 U | 0.059 J | 0.35 J | 0.15 J | 0.40 J | 0.058 J |
| PCB-201 | SW8270CSIM | -- | 0.044 U | 0.044 U | 0.065 J | 0.18 J | 0.10 J | 0.19 J | 0.052 J |
| PCB-206 | SW8270CSIM | -- | 0.045 U | 0.045 U | 0.13 J | 0.6 J | 0.29 J | 0.57 J | 0.12 J |
| Total PCB congener - low resolution (U = 0) | -- | 3.6 | 6.6 J | 3.4 J | 19.8 J | 127.3 J | 58.3 J | 140.6 J | 29.8 J |

**Table 26
2014 Fish Tissue Chemistry Results**

| FINAL VALIDATED DATA | | | Area | | Number Analyzed | Number of Exceedances | Percent of Exceedance |
|---|-------------------------|--------|----------------------------|----------------------------|-----------------|-----------------------|-----------------------|
| Method | Sample ID | Target | SP_2014_Fish | SP_2014_Fish | | | |
| | Sample ID | | SP-WO-PP-C2-20141008 | SP-WO-PP-C3-20141008 | | | |
| | Common Name | | Pacific pompano | Pacific pompano | | | |
| | Scientific Name | | <i>Peprilus simillimus</i> | <i>Peprilus simillimus</i> | | | |
| | Tissue Type | | Whole Body | Whole Body | | | |
| | Sample Date | | 10/8/2014 | 10/8/2014 | | | |
| | X | | -118.17161 | -118.17161 | | | |
| | Y | | 33.752474 | 33.752474 | | | |
| | TMDL Fish Tissue Target | | | | | | |
| Conventional Parameters (pct) | | | | | | | |
| Lipids | NOAA Lipids 1993 | -- | 7.7 | 2.4 | 30 | -- | -- |
| Moisture (water) content | D2216 | -- | 75.5 | 80.5 | 30 | -- | -- |
| Pesticides (µg/kg) | | | | | | | |
| 2,4'-DDD (o,p'-DDD) | SW8270CSIM | -- | 0.55 | 0.34 J | 30 | -- | -- |
| 2,4'-DDE (o,p'-DDE) | SW8270CSIM | -- | 11 | 4.8 J | 30 | -- | -- |
| 2,4'-DDT (o,p'-DDT) | SW8270CSIM | -- | 0.032 U | 0.032 U | 30 | -- | -- |
| 4,4'-DDD (p,p'-DDD) | SW8270CSIM | -- | 2.8 | 1.8 J | 30 | -- | -- |
| 4,4'-DDE (p,p'-DDE) | SW8270CSIM | -- | 120 | 34 J | 30 | -- | -- |
| 4,4'-DDT (p,p'-DDT) | SW8270CSIM | -- | 0.45 | 0.16 J | 30 | -- | -- |
| Chlordane, alpha- (Chlordane, cis-) | SW8270CSIM | -- | 1.6 | 1.6 J | 30 | -- | -- |
| Chlordane, beta- (Chlordane, trans-) | SW8270CSIM | -- | 0.98 | 1.0 J | 30 | -- | -- |
| Dieldrin | SW8270CSIM | 0.46 | 0.090 U | 0.090 U | 30 | 0 | 0% |
| Nonachlor, cis- | SW8270CSIM | -- | 0.97 | 0.91 J | 30 | -- | -- |
| Nonachlor, trans- | SW8270CSIM | -- | 1.3 | 1.3 J | 30 | -- | -- |
| Oxychlordane | SW8270CSIM | -- | 0.076 U | 0.076 UJ | 30 | -- | -- |
| Toxaphene | SW8081A | 6.1 | 0.61 U | 0.61 U | 30 | 0 | 0% |
| Total chlordane (U = 0) | -- | 5.6 | 4.9 | 4.8 J | 30 | 3 | 10% |
| Total DDTs (U = 0) | -- | 21 | 135 | 41 J | 30 | 21 | 70% |
| PCB Congeners - Low Resolution (µg/kg) | | | | | | | |
| PCB-018 | SW8270CSIM | -- | 0.89 | 1.0 J | 30 | -- | -- |
| PCB-028 | SW8270CSIM | -- | 1.2 | 1.2 J | 30 | -- | -- |
| PCB-037 | SW8270CSIM | -- | 0.035 U | 0.035 UJ | 30 | -- | -- |
| PCB-044 | SW8270CSIM | -- | 1.4 | 1.6 J | 30 | -- | -- |
| PCB-049 | SW8270CSIM | -- | 2.5 | 2.1 J | 30 | -- | -- |
| PCB-052 | SW8270CSIM | -- | 2.2 | 2.4 J | 30 | -- | -- |
| PCB-066 | SW8270CSIM | -- | 2.2 | 1.9 J | 30 | -- | -- |
| PCB-070 | SW8270CSIM | -- | 1.7 | 1.5 J | 30 | -- | -- |
| PCB-074 | SW8270CSIM | -- | 1.2 | 1.1 J | 30 | -- | -- |
| PCB-077 | SW8270CSIM | -- | 0.54 | 0.37 J | 30 | -- | -- |
| PCB-081 | SW8270CSIM | -- | 0.064 U | 0.064 UJ | 30 | -- | -- |
| PCB-087 | SW8270CSIM | -- | 2.2 | 1.4 J | 30 | -- | -- |
| PCB-099 | SW8270CSIM | -- | 3.3 | 2.2 J | 30 | -- | -- |
| PCB-101 | SW8270CSIM | -- | 4.4 | 3.4 J | 30 | -- | -- |
| PCB-105 | SW8270CSIM | -- | 1.3 | 0.93 J | 30 | -- | -- |
| PCB-110 | SW8270CSIM | -- | 3.6 | 2.7 J | 30 | -- | -- |
| PCB-114 | SW8270CSIM | -- | 0.14 J | 0.076 J | 30 | -- | -- |
| PCB-118 | SW8270CSIM | -- | 3.7 | 2.5 J | 30 | -- | -- |
| PCB-119 | SW8270CSIM | -- | 0.19 J | 0.11 J | 30 | -- | -- |
| PCB-123 | SW8270CSIM | -- | 0.51 | 0.37 J | 30 | -- | -- |
| PCB-126 | SW8270CSIM | -- | 0.034 U | 0.034 UJ | 30 | -- | -- |

**Table 26
2014 Fish Tissue Chemistry Results**

| FINAL VALIDATED DATA | | | Area | | Number Analyzed | Number of Exceedances | Percent of Exceedance |
|---|-------------------------|-------------------------|----------------------------|----------------------------|-----------------|-----------------------|-----------------------|
| Sample ID | Method | TMDL Fish Tissue Target | SP_2014_Fish | SP_2014_Fish | | | |
| Sample ID | | | SP-WO-PP-C2-20141008 | SP-WO-PP-C3-20141008 | | | |
| Common Name | | | Pacific pompano | Pacific pompano | | | |
| Scientific Name | | | <i>Peprilus simillimus</i> | <i>Peprilus simillimus</i> | | | |
| Tissue Type | | | Whole Body | Whole Body | | | |
| Sample Date | | | 10/8/2014 | 10/8/2014 | | | |
| X | | | -118.17161 | -118.17161 | | | |
| Y | | | 33.752474 | 33.752474 | | | |
| Method | TMDL Fish Tissue Target | | | | | | |
| PCB-128 | SW8270CSIM | -- | 0.99 | 0.62 J | 30 | -- | -- |
| PCB-132/153 | SW8270CSIM | -- | 7.6 | 4.8 J | 30 | -- | -- |
| PCB-138/158 | SW8270CSIM | -- | 5.3 | 3.3 J | 30 | -- | -- |
| PCB-149 | SW8270CSIM | -- | 3.1 | 2.0 J | 30 | -- | -- |
| PCB-151 | SW8270CSIM | -- | 0.83 | 0.58 J | 30 | -- | -- |
| PCB-156 | SW8270CSIM | -- | 0.33 | 0.19 J | 30 | -- | -- |
| PCB-157 | SW8270CSIM | -- | 0.10 J | 0.077 J | 30 | -- | -- |
| PCB-167 | SW8270CSIM | -- | 0.19 J | 0.042 UJ | 30 | -- | -- |
| PCB-168 | SW8270CSIM | -- | 0.045 U | 0.045 UJ | 30 | -- | -- |
| PCB-169 | SW8270CSIM | -- | 0.11 J | 0.057 J | 30 | -- | -- |
| PCB-170 | SW8270CSIM | -- | 0.76 | 0.43 J | 30 | -- | -- |
| PCB-177 | SW8270CSIM | -- | 0.50 | 0.32 J | 30 | -- | -- |
| PCB-180 | SW8270CSIM | -- | 1.5 | 0.86 J | 30 | -- | -- |
| PCB-183 | SW8270CSIM | -- | 0.48 | 0.34 J | 30 | -- | -- |
| PCB-187 | SW8270CSIM | -- | 1.7 | 0.96 J | 30 | -- | -- |
| PCB-189 | SW8270CSIM | -- | 0.051 J | 0.037 J | 30 | -- | -- |
| PCB-194 | SW8270CSIM | -- | 0.29 | 0.13 J | 30 | -- | -- |
| PCB-195 | SW8270CSIM | -- | 0.095 J | 0.074 J | 30 | -- | -- |
| PCB-201 | SW8270CSIM | -- | 0.090 J | 0.048 J | 30 | -- | -- |
| PCB-206 | SW8270CSIM | -- | 0.19 J | 0.069 J | 30 | -- | -- |
| Total PCB congener - low resolution (U = 0) | -- | 3.6 | 57.4 J | 41.7 J | 30 | 29 | 97% |

Table 26
2014 Fish Tissue Chemistry Results

Notes:

Horizontal coordinate datum is NAD 1983 State Plane California V FIPS 0405 (U.S. Survey Feet).

All undetect results are reported at the method detection limit.


Totals (U=0) are calculated as the sum of all detected results. If all results are not detected, half of the highest reporting limit value is reported as the sum.


Total chlordane is the sum of alpha-chlordane, beta-chlordane, gamma-chlordane, cis-nonachlor, trans-nonachlor, and oxychlordane.

Total DDx is the sum of 4,4'-DDD, 4,4'-DDE, 4,4'-DDT, 2,4'-DDD, 2,4'-DDE, and 2,4'-DDT, if measured.

Total PCB congeners is the sum of all PCB congeners listed in this table.

U.S. Environmental Protection Agency Stage 2A data validation was completed by Anchor QEA.

 Detected concentration is greater than TMDL Fish Tissue Target screening level

 Non-detected concentration is above one or more identified screening levels

Bold = Detected result

-- = results not reported or not applicable

µg/kg = micrograms per kilogram

J = estimated value

N = normal environmental sample

PCB = polychlorinated biphenyl

pct = percent

U = compound analyzed but not detected above detection limit

UJ = compound analyzed but not detected above estimated detection limit

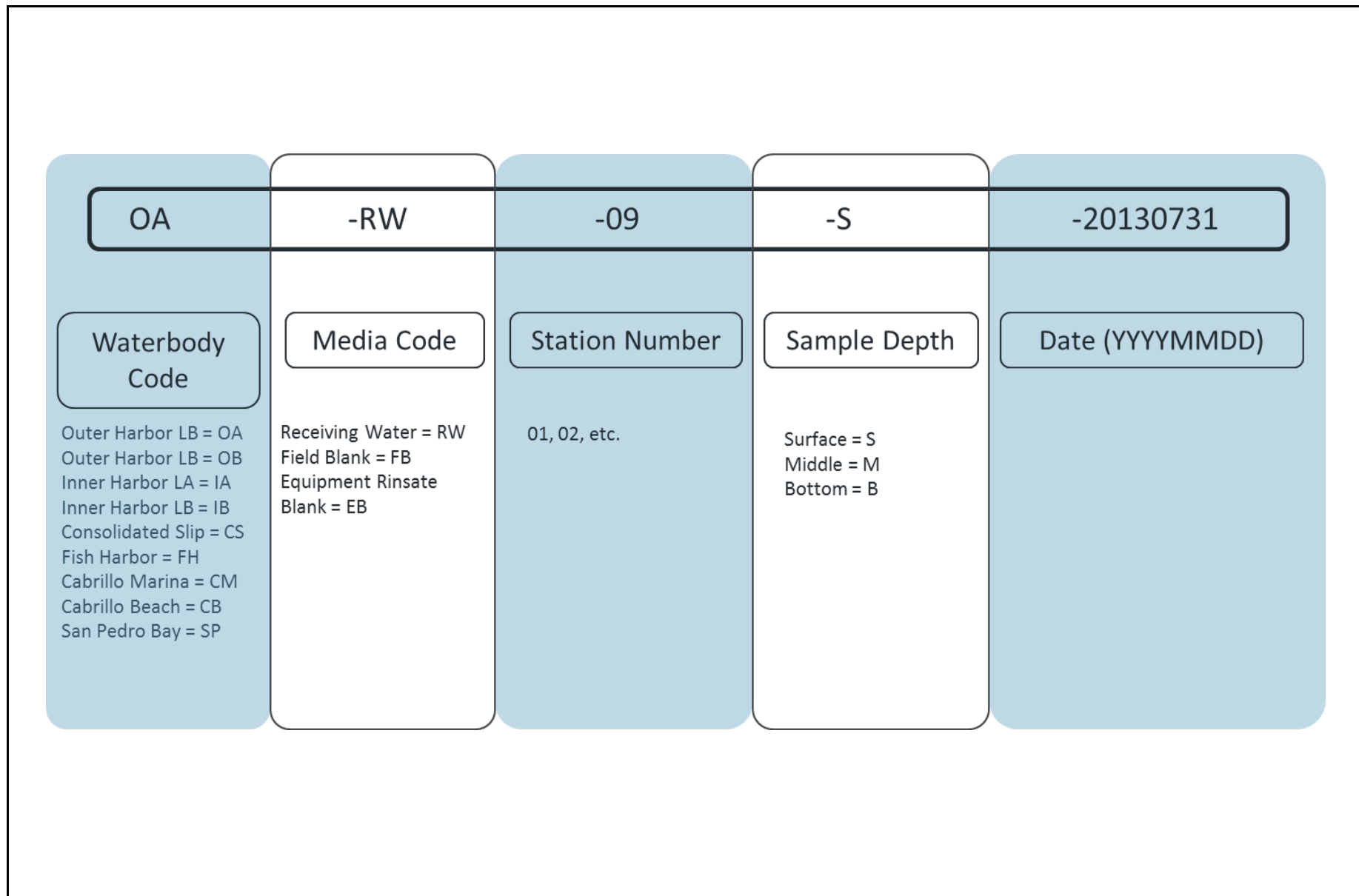
Table 27
Summary of Tissue Exceedances per Event

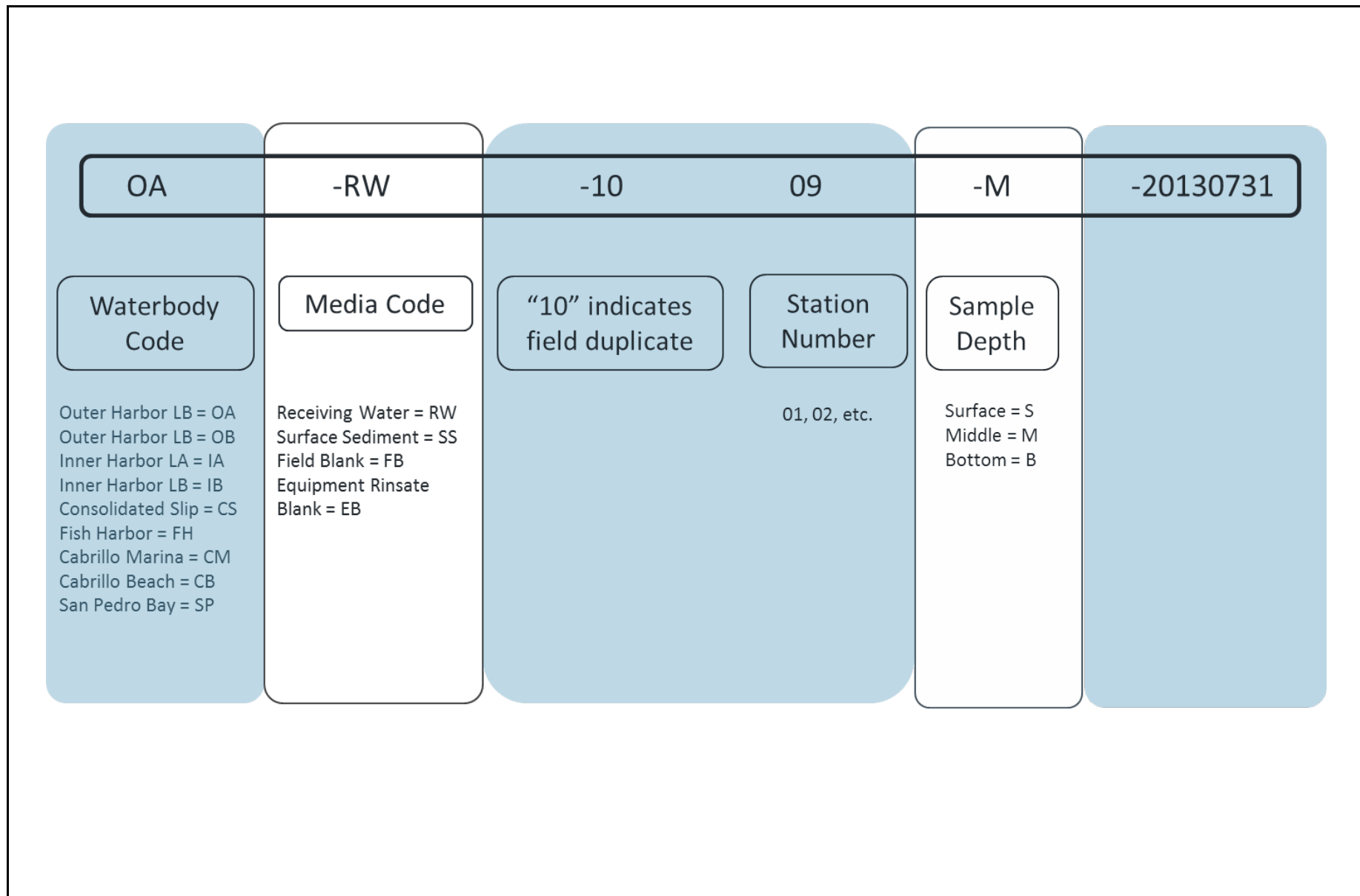
| | Consolidated Slip | Outer Harbor - LA | Outer Harbor - LB | Eastern San Pedro Bay |
|--------------------------|----------------------|----------------------|----------------------|-----------------------|
| | Summer 2014 (n=3) | Summer 2014 (n=9) | Summer 2014 (n=9) | Summer 2014 (n=9) |
| Organic Compounds | | | | |
| Total chlordane | 1 | 0 | 0 | 2 |
| Total DDTs | 3 | 6 | 6 | 6 |
| Total PCB congeners | 3 | 9 | 9 | 8 |
| Dieldrin | 0 | 0 | 0 | 0 |
| Toxaphene | 0 | 0 | 0 | 0 |

Note:

PCB = polychlorinated biphenyl

FIGURES





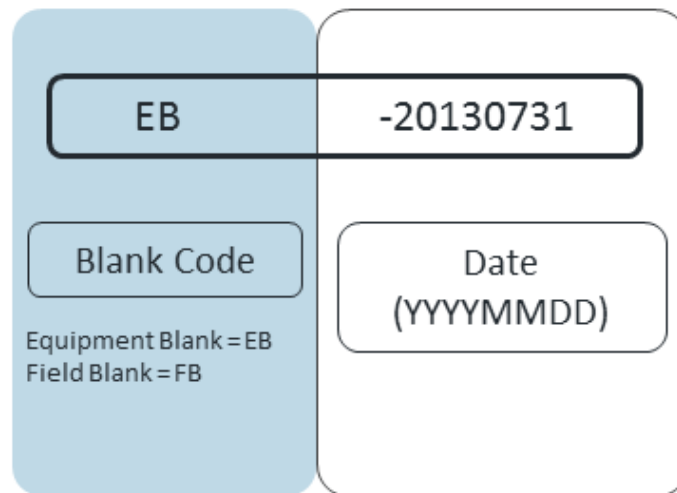
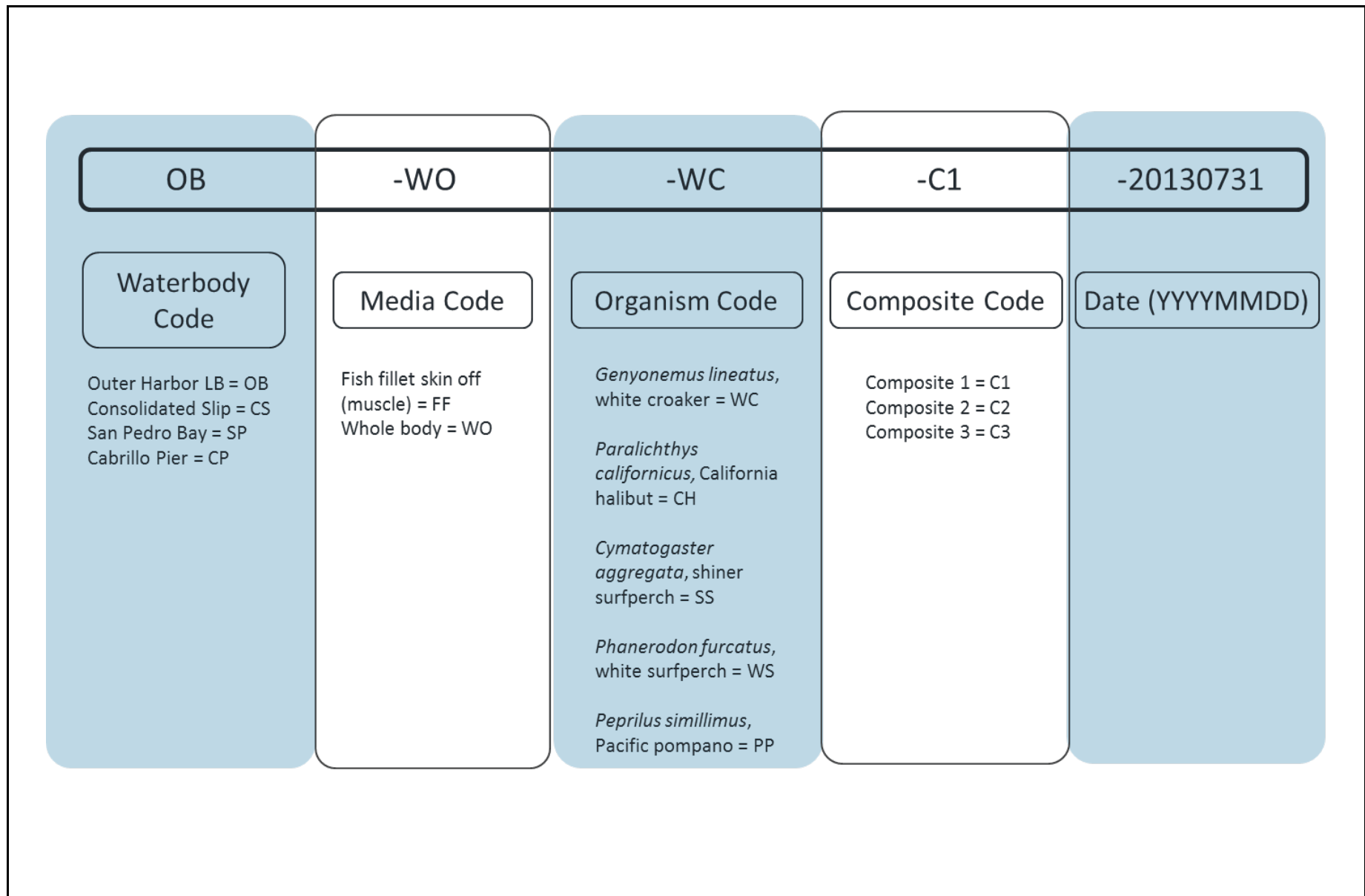


Figure 3
Field Blank/Equipment Blank Sample Nomenclature
2014/15 Annual Report
Greater Los Angeles and Long Beach Harbor Waters

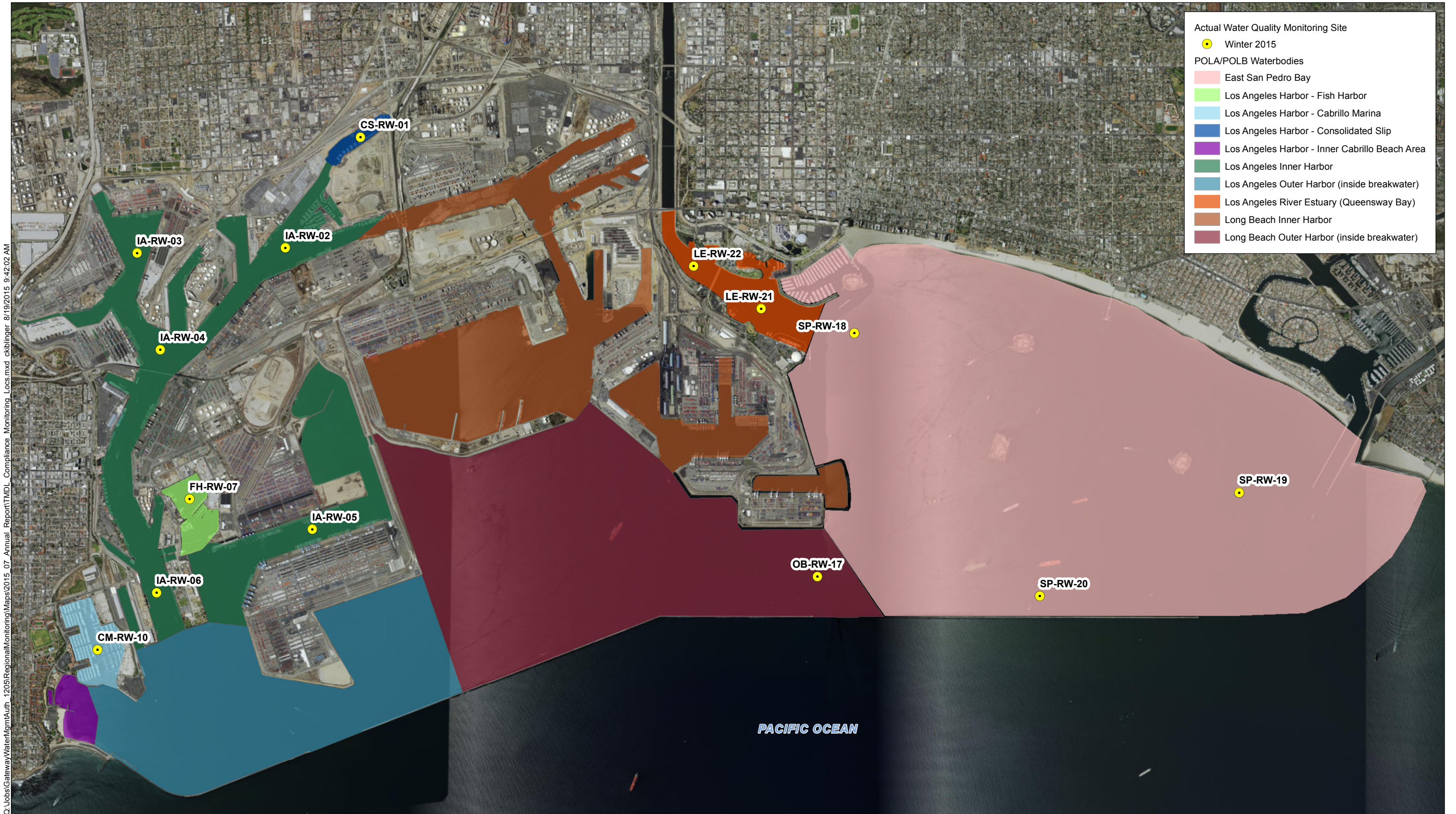




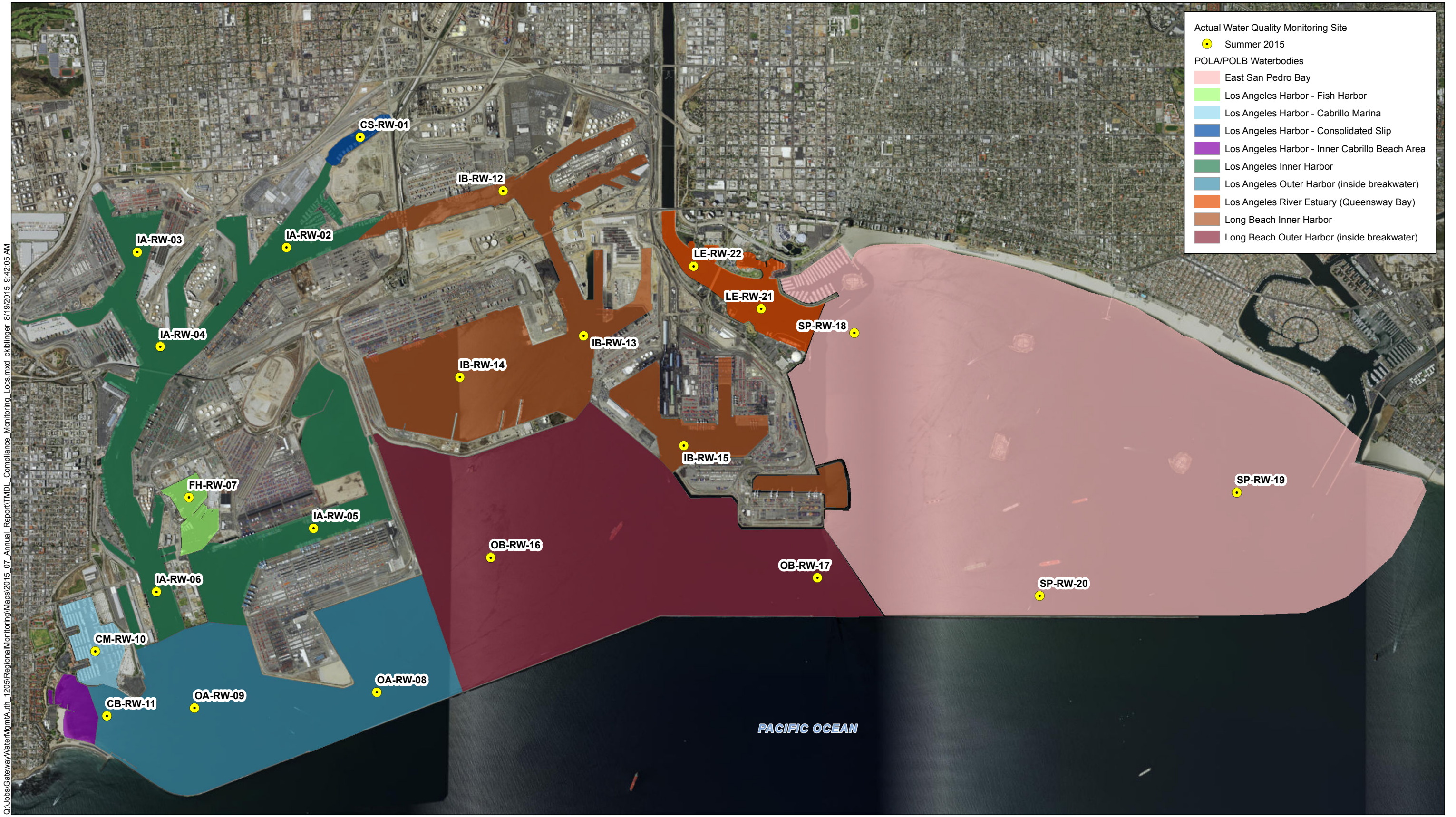
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C:\Jobs\GatewayWaterMgmt\1205\RegionalMonitoring\Maps\2015_07_Annual_Report\TMDL_Compliance_Monitoring_Locs.mxd cktblinger 8/19/2015 9:42:02 AM



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- Sediment Samples 2013
- POLA/POLB Waterbodies**
- East San Pedro Bay
- Los Angeles Harbor - Fish Harbor
- Los Angeles Harbor - Cabrillo Marina
- Los Angeles Harbor - Consolidated Slip
- Los Angeles Harbor - Inner Cabrillo Beach Area
- Los Angeles Inner Harbor
- Los Angeles Outer Harbor (inside breakwater)
- Los Angeles River Estuary (Queensway Bay)
- Long Beach Inner Harbor
- Long Beach Outer Harbor (inside breakwater)

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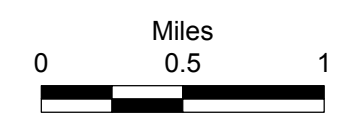
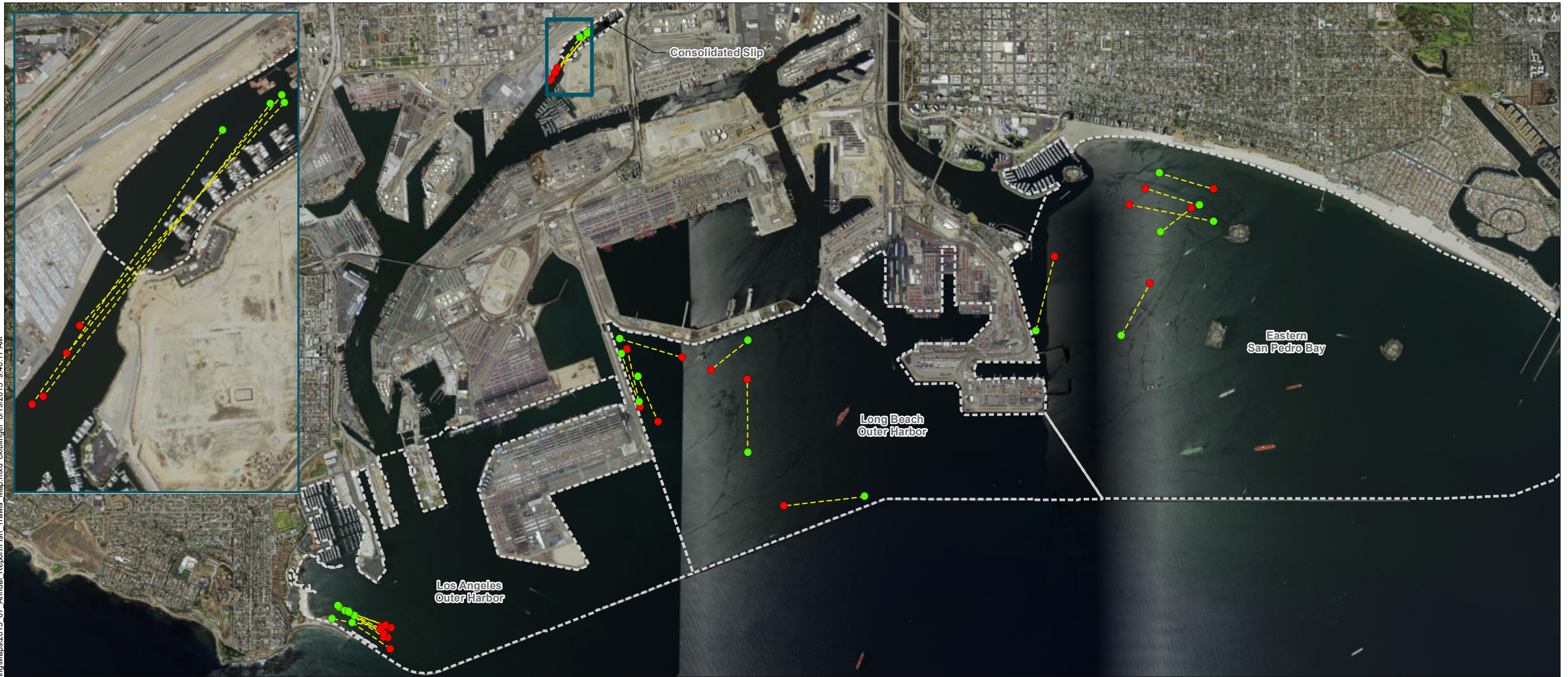
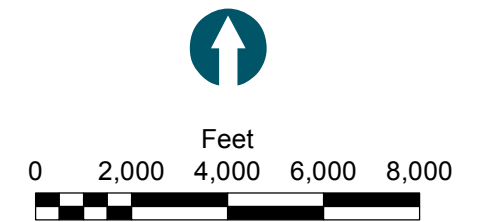


Figure 9
 TMDL Compliance Monitoring Sediment Locations (Bight 2013)
 2014/15 Annual Report
 Greater Los Angeles and Long Beach Harbor Waters

Q:\Jobs\GatewayWaterMgmt\1205\RegionalMonitoring\Maps\2015_07_Annual_Report\Fish_Trawls_Map.mxd ckiblinger 8/19/2015 9:40:17 AM



Fish Trawls
● Start
● End
Indirect Effects Assessment Unit



Q:\Jobs\120711-01_Port of Los Angeles\POLA_POLB_Bioaccumulation_Modeling_Support\Analysis\2015_02_SQO_Bight13\Bight13_SQO.mxd ckblinger 8/19/2015 9:42:31 AM



- Station Assessment Results**
- Unimpacted
 - Likely unimpacted
 - Possibly impacted
 - No Data Available
 - Random SQO Samples
 - Resampled Random SQO Samples

- Inner Harbor
- Outer Harbor
- Eastern San Pedro Bay

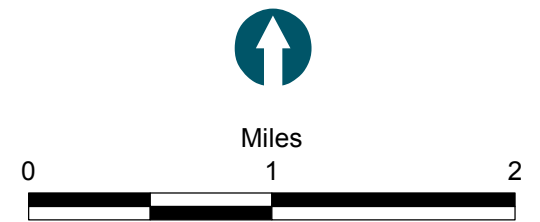


Figure 11
 SQO Assessment Draft Results
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 Greater Los Angeles and Long Beach Harbor Waters

APPENDIX A

FIELD FORMS

APPENDIX A-1
WATER SAMPLING FIELD FORMS



Water Quality Sample Form

| Project Name: TMDL compliance WQ | | | Project Number: 14/205-01 | | | Date: 9.30.14 | | Time: 1205 | | | |
|---|------------------------------|---|---------------------------|-------------------------------|-------------------|---------------|--|---|----------------------------|--------------|--|
| Station ID: CSRW-01 | Latitude/Northing: 33.77489° | | | Longitude/Easting: 118.24529° | | | Water Depth (ft): 25.2 | | | | |
| Weather Conditions: Sunny, warm | | | | | | | Field Personnel: BG, CO | | | | |
| Wind Speed and Direction (see Beaufort Scale): 1-3 mph from SW | | | | | | | | | | | |
| Biological Activity (e.g., presence of fish, birds, macrophytes, phytoplankton): None | | | | | | | | | | | |
| Description of In-water activities (e.g., recreational boating, active discharges): None | | | | | | | | | | | |
| In Situ Field Parameters ¹ and Water Sample Collection | | | | | | | | | | | |
| Time | Depth (m) ft | Surface (S), Mid-depth (M), or Bottom (B) | DO (mg/L) | pH | Salinity (ppt) | Temp (°C) | Chemistry Sample Collected? (Y/N) | Physical Description of Sample ² | Analytes (circle one) | Sample ID | |
| 1205 | 2.0 | S | 7.5 | 7.9 | 28.6 | 20.2 | Y | see comment | TSS only <u>Full suite</u> | CS-RW-01-G-S | |
| 1207 | 12.5 | M | 7.3 | 7.9 | 28.6 | 19.4 | Y | / | <u>TSS only</u> Full suite | CS-RW-01-G-M | |
| 1210 | 22.5 | B | 7.4 | 7.9 | 28.6 | 19.1 | Y | Slight Particulates | <u>TSS only</u> Full suite | CS-RW-01-G-B | |
| | | | | | | | | | TSS only Full suite | | |
| | | | | | | | | | TSS only Full suite | | |
| | | | | | | | | | TSS only Full suite | | |
| | | | | | | | | | TSS only Full suite | | |
| QA/QC Samples Collected: Y/N | | Field duplicate (5% of project) / Field blank (1 during monitoring event) / Rinsate blank (1 during monitoring event) | | | | | | | TSS only Full suite | | |
| Comments (include photographs taken, if any): No floating material, color, odor, or sheen, unless noted | | | | | | | | | | | |

- Notes:
1. Field measurements will be made in triplicate on 5 percent of measurements to ensure project DQOs are met. These measurements will be recorded on the next page.
 2. Description should include suspended or floating material, color, odor, or sheen.

Water Quality Sample Form

| Project Name: <u>TMDL Compliance WQ</u> | | Project Number: <u>141205-01</u> | | Date: <u>9.30.14</u> | | Time: <u>1300</u> | | | | |
|---|--------------------|---|--------------|---------------------------------------|-------------------|--------------------------------|--|---|----------------------------|--------------|
| Station ID: <u>IA-RW-02</u> | | Latitude/Northing: <u>33.76290°</u> | | Longitude/Easting: <u>-118.25481°</u> | | Water Depth (ft): <u>01.1</u> | | | | |
| Weather Conditions: <u>Sunny, warm</u> | | | | | | Field Personnel: <u>BB, CO</u> | | | | |
| Wind Speed and Direction (see Beaufort Scale): <u>3-7 mph from SE</u> | | | | | | | | | | |
| Biological Activity (e.g., presence of fish, birds, macrophytes, phytoplankton): <u>few birds</u> | | | | | | | | | | |
| Description of In-water activities (e.g., recreational boating, active discharges): <u>few vessels</u> | | | | | | | | | | |
| In Situ Field Parameters ¹ and Water Sample Collection | | | | | | | | | | |
| Time | Depth (m) ft | Surface (S), Mid-depth (M), or Bottom (B) | DO (mg/L) | pH | Salinity (ppt) | Temp (°C) | Chemistry Sample Collected? (Y/N) | Physical Description of Sample ² | Analytes (circle one) | Sample ID |
| 1300 | 2.0 | S | 8.3 | 8.0 | 28.7 | 20.0 | Y | No flo. BS See comment | TSS only <u>Full suite</u> | IA-RW-02-G-S |
| 1305 | 30.5 | M | 7.6 | 7.9 | 28.6 | 18.8 | N | ↓ | TSS only Full suite | |
| 1305 | 30.5 | M | 7.6 | 7.9 | 28.6 | 18.8 | N | | TSS only Full suite | |
| 1306 | 30.5 | M | 7.6 | 7.9 | 28.6 | 18.8 | Y | | <u>TSS only</u> Full suite | IA-RW-02-G-M |
| 1310 | 58.5 | B | 6.9 | 7.9 | 28.6 | 18.3 | Y | Trace Particulates | <u>TSS only</u> Full suite | IA-RW-02-G-B |
| | | | | | | | | | TSS only Full suite | |
| | | | | | | | | | TSS only Full suite | |
| QA/QC Samples Collected: Y <u>(N)</u> | | Field duplicate (5% of project) / Field blank (1 during monitoring event) / Rinsate blank (1 during monitoring event) | | | | | | TSS only Full suite | | |
| Comments (include photographs taken, if any): <u>No floating material, color, odor or sheen unless noted.</u> | | | | | | | | | | |

- Notes:
- Field measurements will be made in triplicate on 5 percent of measurements to ensure project DQOs are met. These measurements will be recorded on the next page.
 - Description should include suspended or floating material, color, odor, or sheen.

DQO Measurements

| Project Name: <u>TMDL Compliance WQ</u> | | | Project Number: <u>141205-01</u> | | | | |
|---|---|-------------------|----------------------------------|------------|----------------------|--------------|----------|
| Station ID: <u>IA-RW-02</u> | | Time: <u>1305</u> | | | Date: <u>9.30.14</u> | | |
| In Situ Field Parameters ¹ | | | | | | | |
| Time | Surface (S), Mid-depth (M), or Bottom (B) | Depth (m) | DO (mg/L) | pH (units) | Salinity (ppt) | Temp (°C) | Comments |
| <u>1305</u> | <u>S M</u> | <u>30.5</u> | <u>7.6</u> | <u>7.9</u> | <u>28.6</u> | <u>18.8</u> | |
| <u>1305</u> | <u>M</u> | <u>30.5</u> | <u>7.6</u> | <u>7.9</u> | <u>28.6</u> | <u>18.8</u> | |
| <u>1304</u> | <u>M</u> | <u>30.5</u> | <u>7.6</u> | <u>7.9</u> | <u>28.6</u> | <u>18.8</u> | |
| Average | | <u>30.5</u> | <u>7.6</u> | <u>7.9</u> | <u>28.6</u> | <u>18.8</u> | |
| Difference between max and min | | <u>0</u> | <u>0</u> | <u>0</u> | <u>0</u> | <u>0</u> | |
| RPD | | <u>0</u> | <u>0</u> | <u>0</u> | <u>0</u> | <u>0</u> | |
| Precision | | ± 0.1 | 5 percent | ± 0.2 | ± 0.2 | ± 0.5 °C | |
| DQO Met? (Y/N) ² | | <u>Y</u> | <u>Y</u> | <u>Y</u> | <u>Y</u> | <u>Y</u> | |
| Time | Surface (S), Mid-depth (M), or Bottom (B) | Depth (m) | DO (mg/L) | pH | Salinity (ppt) | Temp (°C) | Comments |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| Average | | | | | | | |
| Difference between max and min | | | | | | | |
| RPD | | | | | | | |
| Precision | | ± 0.1 | 5 percent | ± 0.2 | ± 0.2 | ± 0.5 °C | |
| DQO Met? (Y/N) ² | | | | | | | |
| Comments: | | | | | | | |

Notes:

- Field measurements will be made in triplicate on 5 percent of measurements to ensure project DQOs are met. Each result will be recorded along with the average of the three results, the difference between the largest and smallest result, and the percent difference between the largest and smallest result. The percent difference will be calculated as follows:

$$\text{Percent difference} = 100 * (\text{largest} - \text{smallest}) / \text{average}$$

Triplicate measurements, the average of the results, and percent difference will be recorded on the field data sheet. The percent difference, as appropriate, will be compared against the precision criteria established for field measurements in Table 7.

- If no, write corrective actions taken in the comments box (e.g., re-calibrated instrument, etc.) and re-measure.



Water Quality Sample Form

| Project Name: TMDL Compliance WQ | | | Project Number: 141205-01 | | | Date: 9.30.14 | | | Time: 1413 | | | |
|---|-------------------------------|---|---------------------------|-----|--------------------------------|---------------|--|---|--------------------------|------------|--------------|--------------|
| Station ID: IA-RW-03 | | Latitude/Northing: 33.76229° | | | Longitude/Easting: -118.27410° | | | Water Depth (ft): 60.4 | | | | |
| Weather Conditions: Sunny, warm | | | | | | | | Field Personnel: B6, CO | | | | |
| Wind Speed and Direction (see Beaufort Scale): 1-3 mph from SW | | | | | | | | | | | | |
| Biological Activity (e.g., presence of fish, birds, macrophytes, phytoplankton): None | | | | | | | | | | | | |
| Description of In-water activities (e.g., recreational boating, active discharges): 1 Police vessel | | | | | | | | | | | | |
| In Situ Field Parameters ¹ and Water Sample Collection | | | | | | | | | | | | |
| Time | Depth (m) ft | Surface (S), Mid-depth (M), or Bottom (B) | DO (mg/L) | pH | Salinity (ppt) | Temp (°C) | Chemistry Sample Collected? (Y/N) | Physical Description of Sample ² | Analytes (circle one) | | Sample ID | |
| 1413 | 2.0 | S | 8.1 | 8.0 | 28.6 | 19.8 | Y | See comment | TSS only | Full suite | IA-RW-03-G-S | |
| 1420 | 30.0 | M | 7.7 | 7.9 | 28.6 | 18.8 | Y | ↓ | TSS only | Full suite | IA-RW-03-G-M | |
| 1425 | 58.0 | B | 6.4 | 7.9 | 28.6 | 18.3 | Y | | TSS only | Full suite | IA-RW-03-G-B | |
| | | | | | | | | | | TSS only | Full suite | |
| | | | | | | | | | | TSS only | Full suite | |
| | | | | | | | | | | TSS only | Full suite | |
| | | | | | | | | | | TSS only | Full suite | |
| QA/QC Samples Collected: Y/N | | Field duplicate (5% of project) / Field blank (1 during monitoring event) / Rinsate blank (1 during monitoring event) Lab Dup (for lab QA/QC) | | | | | | | TSS only | | Full suite | IA-RW-03-G-S |
| Comments (include photographs taken, if any): No floating material, color, odor, or sheen | | | | | | | | | | | | |

Notes:

- Field measurements will be made in triplicate on 5 percent of measurements to ensure project DQOs are met. These measurements will be recorded on the next page.
- Description should include suspended or floating material, color, odor, or sheen.

Water Quality Sample Form

| Project Name: <u>TMDL Compliance WQ</u> | | Project Number: <u>141205-01</u> | | Date: <u>9.30.14</u> | | Time: <u>1343</u> | | | | |
|---|--------------------|---|--------------|---------------------------------------|-------------------|--------------------------------|--|---|----------------------------|--------------|
| Station ID: <u>IA-RW-04</u> | | Latitude/Northing: <u>33.75190°</u> | | Longitude/Easting: <u>-118.27099°</u> | | Water Depth (ft): <u>64.4</u> | | | | |
| Weather Conditions: <u>Sunny, warm</u> | | | | | | Field Personnel: <u>BG, CO</u> | | | | |
| Wind Speed and Direction (see Beaufort Scale): <u>3-7 mph from SW</u> | | | | | | | | | | |
| Biological Activity (e.g., presence of fish, birds, macrophytes, phytoplankton): <u>None</u> | | | | | | | | | | |
| Description of In-water activities (e.g., recreational boating, active discharges): <u>None</u> | | | | | | | | | | |
| In Situ Field Parameters ¹ and Water Sample Collection | | | | | | | | | | |
| Time | Depth (m) ft | Surface (S), Mid-depth (M), or Bottom (B) | DO (mg/L) | pH | Salinity (ppt) | Temp (°C) | Chemistry Sample Collected? (Y/N) | Physical Description of Sample ² | Analytes (circle one) | Sample ID |
| 1343 | 2.0 | S | 8.0 | 8.0 | 28.6 | 19.7 | Y | See comment | TSS only <u>Full suite</u> | IA-RW-04-G-S |
| 1346 | 32.0 | M | 7.4 | 7.9 | 28.6 | 18.7 | Y | ↓ | <u>TSS only</u> Full suite | IA-RW-04-G-M |
| 1349 | 62.0 | B | 6.9 | 7.9 | 28.6 | 18.3 | Y | ↓ | <u>TSS only</u> Full suite | IA-RW-04-G-B |
| | | | | | | | | | TSS only Full suite | |
| | | | | | | | | | TSS only Full suite | |
| | | | | | | | | | TSS only Full suite | |
| | | | | | | | | | TSS only Full suite | |
| QA/QC Samples Collected: Y <input checked="" type="checkbox"/> N <input type="checkbox"/> | | Field duplicate (5% of project) / Field blank (1 during monitoring event) / Rinsate blank (1 during monitoring event) | | | | | | TSS only Full suite | | |
| Comments (include photographs taken, if any): <u>No floating material, color, odor, or sheen, unless noted.</u> | | | | | | | | | | |

- Notes:
- Field measurements will be made in triplicate on 5 percent of measurements to ensure project DQOs are met. These measurements will be recorded on the next page.
 - Description should include suspended or floating material, color, odor, or sheen.

Water Quality Sample Form

| Project Name: <u>TMDL compliance WQ</u> | | Project Number: <u>141205-01</u> | | Date: <u>9.30.14</u> | | Time: <u>1705</u> | | | | |
|---|-------------------------------------|---|---------------------------------------|----------------------|--------------------------------|-------------------|--|---|---|--------------|
| Station ID: <u>IA-RW-05</u> | Latitude/Northing: <u>33.73057°</u> | | Longitude/Easting: <u>-118.25699°</u> | | Water Depth (ft): <u>60.3</u> | | | | | |
| Weather Conditions: <u>Sunny, warm</u> | | | | | Field Personnel: <u>BG, CO</u> | | | | | |
| Wind Speed and Direction (see Beaufort Scale): <u>8-12 mph from SW</u> | | | | | | | | | | |
| Biological Activity (e.g., presence of fish, birds, macrophytes, phytoplankton): <u>None</u> | | | | | | | | | | |
| Description of In-water activities (e.g., recreational boating, active discharges): <u>None</u> | | | | | | | | | | |
| In Situ Field Parameters ¹ and Water Sample Collection | | | | | | | | | | |
| Time | Depth (m) ft | Surface (S), Mid-depth (M), or Bottom (B) | DO (mg/L) | pH | Salinity (ppt) | Temp (°C) | Chemistry Sample Collected? (Y/N) | Physical Description of Sample ² | Analytes (circle one) | Sample ID |
| 1705 | 2.0 | S | 8.4 | 8.0 | 28.6 | 19.5 | Y | See comment | TSS only <input checked="" type="radio"/> Full suite | IA-RW-05-G-S |
| 1710 | 30.0 | M | 8.2 | 8.0 | 28.6 | 18.8 | Y | ↓ | <input checked="" type="radio"/> TSS only Full suite | IA-RW-05-G-M |
| 1715 | 58.0 | B | 7.8 | 8.0 | 28.6 | 17.5 | Y | Trace particulates | <input checked="" type="radio"/> TSS only Full suite | IA-RW-05-G-B |
| | | | | | | | | | TSS only <input type="radio"/> Full suite <input type="radio"/> | |
| | | | | | | | | | TSS only <input type="radio"/> Full suite <input type="radio"/> | |
| | | | | | | | | | TSS only <input type="radio"/> Full suite <input type="radio"/> | |
| | | | | | | | | | TSS only <input type="radio"/> Full suite <input type="radio"/> | |
| QA/QC Samples Collected: Y/N <input checked="" type="radio"/> | | Field duplicate (5% of project) / Field blank (1 during monitoring event) / Rinsate blank (1 during monitoring event) | | | | | | TSS only <input type="radio"/> Full suite <input type="radio"/> | | |
| Comments (include photographs taken, if any): <u>No floating material, color, odor or sheen unless noted.</u> | | | | | | | | | | |

- Notes:
- Field measurements will be made in triplicate on 5 percent of measurements to ensure project DQOs are met. These measurements will be recorded on the next page.
 - Description should include suspended or floating material, color, odor, or sheen.



Water Quality Sample Form

| Project Name: <u>TMDL compliance WQ</u> | | | Project Number: <u>141205-01</u> | | | Date: <u>9.30.14</u> | | Time: <u>1550</u> | | |
|---|--------------------------------------|---|----------------------------------|------------|---------------------------------------|----------------------|--|---|-----------------------------------|--|
| Station ID: <u>IA-RW-06</u> | | Latitude/Northing: <u>33.72565°</u> | | | Longitude/Easting: <u>-118.27148°</u> | | | Water Depth (ft): <u>60.3</u> | | |
| Weather Conditions: <u>Sunny, warm</u> | | | | | | | | Field Personnel: <u>BG, CO</u> | | |
| Wind Speed and Direction (see Beaufort Scale): <u>3-7 mph from SW</u> | | | | | | | | | | |
| Biological Activity (e.g., presence of fish, birds, macrophytes, phytoplankton): <u>FEW birds</u> | | | | | | | | | | |
| Description of In-water activities (e.g., recreational boating, active discharges): <u>frequent vessels</u> | | | | | | | | | | |
| In Situ Field Parameters ¹ and Water Sample Collection | | | | | | | | | | |
| Time | Depth (m) (m) ft | Surface (S), Mid-depth (M), or Bottom (B) | DO (mg/L) | pH | Salinity (ppt) | Temp (°C) | Chemistry Sample Collected? (Y/N) | Physical Description of Sample ² | Analytes (circle one) | Sample ID |
| <u>1550</u> | <u>2.0</u> | <u>S</u> | <u>8.0</u> | <u>8.0</u> | <u>28.6</u> | <u>19.2</u> | <u>Y</u> | <u>See comment</u> | <u>TSS only</u> <u>Full suite</u> | <u>IA-RW-^{BG}10006-G-S</u> |
| <u>1555</u> | <u>30.0</u> | <u>M</u> | <u>7.8</u> | <u>8.0</u> | <u>28.6</u> | <u>18.6</u> | <u>Y</u> | <u>↓</u> | <u>TSS only</u> <u>Full suite</u> | <u>IA-RW-06-G-M</u> |
| <u>1600</u> | <u>58.0</u> | <u>B</u> | <u>7.9</u> | <u>8.0</u> | <u>28.6</u> | <u>17.8</u> | <u>Y</u> | <u>Trace particulates</u> | <u>TSS only</u> <u>Full suite</u> | <u>IA-RW-06-G-B</u> |
| | | | | | | | | | <u>TSS only</u> <u>Full suite</u> | |
| | | | | | | | | | <u>TSS only</u> <u>Full suite</u> | |
| | | | | | | | | | <u>TSS only</u> <u>Full suite</u> | |
| | | | | | | | | | <u>TSS only</u> <u>Full suite</u> | |
| QA/QC Samples Collected: <u>Y</u> / <u>N</u> | | Field duplicate (5% of project) / Field blank (1 during monitoring event) / Rinsate blank (1 during monitoring event) | | | | | | <u>TSS only</u> <u>Full suite</u> | | <u>IA-RW-^{BG}10006-G-S</u> |
| Comments (include photographs taken, if any): <u>NO floating material, color, odor or sheen unless noted.</u> | | | | | | | | | | |

IA-RW-1006-G-M-20140930

- Notes:
- Field measurements will be made in triplicate on 5 percent of measurements to ensure project DQOs are met. These measurements will be recorded on the next page.
 - Description should include suspended or floating material, color, odor, or sheen.



Water Quality Sample Form

| Project Name: <u>TMDL Compliance WQ</u> | | Project Number: <u>141205-01</u> | | Date: <u>9.30.14</u> | | Time: <u>1630</u> | | | | | |
|--|-------------------------------------|---|---------------------------------------|----------------------|--------------------------------|-------------------|--|---|----------------------------|---------------------|--|
| Station ID: <u>FHRW07</u> | Latitude/Northing: <u>33.73578°</u> | | Longitude/Easting: <u>-118.26733°</u> | | Water Depth (ft): <u>24.0</u> | | | | | | |
| Weather Conditions: <u>Sunny, warm</u> | | | | | Field Personnel: <u>BG, CO</u> | | | | | | |
| Wind Speed and Direction (see Beaufort Scale): <u>3-7 mph from SW</u> | | | | | | | | | | | |
| Biological Activity (e.g., presence of fish, birds, macrophytes, phytoplankton): <u>Flock*birds (seagulls)</u> | | | | | | | | | | | |
| Description of In-water activities (e.g., recreational boating, active discharges): <u>None</u> | | | | | | | | | | | |
| In Situ Field Parameters ¹ and Water Sample Collection | | | | | | | | | | | |
| Time | Depth (m) <u>ft</u> | Surface (S), Mid-depth (M), or Bottom (B) | DO (mg/L) | pH | Salinity (ppt) | Temp (°C) | Chemistry Sample Collected? (Y/N) | Physical Description of Sample ² | Analytes (circle one) | Sample ID | |
| <u>1630</u> | <u>2.0</u> | <u>S</u> | <u>8.4</u> | <u>8.0</u> | <u>28.7</u> | <u>20.6</u> | <u>Y</u> | <u>See comment</u> | TSS only <u>Full suite</u> | <u>FH-RW-07-G-S</u> | |
| <u>1633</u> | <u>12.0</u> | <u>M</u> | <u>8.1</u> | <u>8.0</u> | <u>28.7</u> | <u>19.6</u> | <u>Y</u> | <u>↓</u> | <u>TSS only</u> Full suite | <u>FH-RW-07-G-M</u> | |
| <u>1636</u> | <u>21.5</u> | <u>B</u> | <u>6.4</u> | <u>7.9</u> | <u>28.6</u> | <u>18.8</u> | <u>Y</u> | <u>↓</u> | <u>TSS only</u> Full suite | <u>FH-RW-07-G-B</u> | |
| | | | | | | | | | TSS only Full suite | | |
| | | | | | | | | | TSS only Full suite | | |
| | | | | | | | | | TSS only Full suite | | |
| | | | | | | | | | TSS only Full suite | | |
| QA/QC Samples Collected: <u>Y/N</u> | | Field duplicate (5% of project) / Field blank (1 during monitoring event) / Rinsate blank (1 during monitoring event) | | | | | | | TSS only Full suite | | |
| Comments (include photographs taken, if any): | | | | | | | | <u>No floating material, color, odor, or sheen unless noted</u> | | | |

- Notes:
- Field measurements will be made in triplicate on 5 percent of measurements to ensure project DQOs are met. These measurements will be recorded on the next page.
 - Description should include suspended or floating material, color, odor, or sheen.

Water Quality Sample Form

| Project Name: <u>TMDL Compliance WQ</u> | | | Project Number: <u>141205-01</u> | | | Date: <u>9.30.14</u> | | | Time: <u>1010</u> | | | |
|---|--------------------|---|----------------------------------|-----|--------------------------------------|----------------------|--|---|--------------------------|------------|--------------|----------------|
| Station ID: <u>OA-RW-08</u> | | Latitude/Northing: <u>33.71468°</u> | | | Longitude/Easting: <u>118.24228°</u> | | | Water Depth (ft): <u>82.2</u> | | | | |
| Weather Conditions: <u>Sunny, warm</u> | | | | | | | | Field Personnel: <u>BG, CO</u> | | | | |
| Wind Speed and Direction (see Beaufort Scale): <u>1-3 mph from NE</u> | | | | | | | | | | | | |
| Biological Activity (e.g., presence of fish, birds, macrophytes, phytoplankton): <u>few birds</u> | | | | | | | | | | | | |
| Description of In-water activities (e.g., recreational boating, active discharges): <u>few vessels</u> | | | | | | | | | | | | |
| In Situ Field Parameters ¹ and Water Sample Collection | | | | | | | | | | | | |
| Time | Depth (m) ft | Surface (S), Mid-depth (M), or Bottom (B) | DO (mg/L) | pH | Salinity (ppt) | Temp (°C) | Chemistry Sample Collected? (Y/N) | Physical Description of Sample ² | Analytes (circle one) | | Sample ID | |
| 1010 | 2.0 | S | 8.3 | 8.0 | 28.7 | 19.5 | Y | See comment | TSS only | Full suite | OA-RW-08-G-S | |
| 1015 | 41.0 | M | 8.1 | 8.0 | 28.6 | 17.9 | Y | ↓ | TSS only | Full suite | OA-RW-08-G-M | |
| 1020 | 80.0 | B | 8.4 | 8.0 | 28.6 | 16.8 | Y | Trace Particulates | TSS only | Full suite | OA-RW-08-G-B | |
| | | | | | | | | | TSS only | Full suite | | |
| | | | | | | | | | TSS only | Full suite | | |
| | | | | | | | | | TSS only | Full suite | | |
| | | | | | | | | | TSS only | Full suite | | |
| QA/QC Samples Collected: Y / N | | Field duplicate (5% of project) / Field blank (1 during monitoring event) / Rinsate blank (1 during monitoring event) | | | | | | | TSS only | | Full suite | OA-RW-1008-G-S |
| Comments (include photographs taken, if any): <u>No floating material, color, odor or sheen unless noted.</u> | | | | | | | | | | | | |

Notes:

1. Field measurements will be made in triplicate on 5 percent of measurements to ensure project DQOs are met. These measurements will be recorded on the next page.
2. Description should include suspended or floating material, color, odor, or sheen.

Water Quality Sample Form

| Project Name: <u>TMDL Compliance WA</u> | | | Project Number: <u>141205-01</u> | | | Date: <u>9.30.14</u> | | | Time: <u>0932</u> | | | |
|--|------------------------|---|----------------------------------|-----|---------------------------------------|----------------------|-----------------------------------|---|-----------------------|-------------------|---------------------------|--|
| Station ID: <u>OA-RW-09</u> | | Latitude/Northing: <u>33.71200°</u> | | | Longitude/Easting: <u>-118.20336°</u> | | | Water Depth (ft): <u>21.5</u> | | | | |
| Weather Conditions: <u>Sunny, warm</u> | | | | | | | | Field Personnel: <u>BG, CO</u> | | | | |
| Wind Speed and Direction (see Beaufort Scale): <u>1-3 mph from ^{BG}SE NE</u> | | | | | | | | | | | | |
| Biological Activity (e.g., presence of fish, birds, macrophytes, phytoplankton): <u>None ^{BG} 2 dolphins, few birds</u> | | | | | | | | | | | | |
| Description of In-water activities (e.g., recreational boating, active discharges): <u>None ^{BG} few fishing vessels</u> | | | | | | | | | | | | |
| In Situ Field Parameters ¹ and Water Sample Collection | | | | | | | | | | | | |
| Time | Depth (m) <u>ft</u> | Surface (S), Mid-depth (M), or Bottom (B) | DO (mg/L) | pH | Salinity (ppt) | Temp (°C) | Chemistry Sample Collected? (Y/N) | Physical Description of Sample ² | Analytes (circle one) | | Sample ID | |
| 0932 | 2.0 | S | 8.2 | 8.0 | 28.6 | 18.8 | Y | see comment | TSS only | <u>Full suite</u> | OA-RW-09-G-S | |
| 0936 | 11.0 ft | M | 8.1 | 8.0 | 28.6 | 18.7 | Y | ↓ | <u>TSS only</u> | Full suite | OA-RW-09-G-M | |
| 0939 | 19.0 | B | 8.0 | 8.0 | 28.6 | 18.7 | Y | ↓ | <u>TSS only</u> | Full suite | OA-RW-09- G -B | |
| | | | | | | | | | TSS only | Full suite | | |
| | | | | | | | | | TSS only | Full suite | | |
| | | | | | | | | | TSS only | Full suite | | |
| | | | | | | | | | TSS only | Full suite | | |
| QA/QC Samples Collected: Y <input checked="" type="checkbox"/> N <input type="checkbox"/> | | Field duplicate (5% of project) / Field blank (1 during monitoring event) / Rinsate blank (1 during monitoring event) | | | | | | | TSS only | | Full suite | |
| Comments (include photographs taken, if any): <u>some floating debris on station surface</u> <u>NO floating material, color, odor or sheen in samples</u> | | | | | | | | | | | | |

- Notes:
- Field measurements will be made in triplicate on 5 percent of measurements to ensure project DQOs are met. These measurements will be recorded on the next page.
 - Description should include suspended or floating material, color, odor, or sheen.

Water Quality Sample Form

| Project Name: <u>TMDL compliance WQ</u> | | | Project Number: <u>141205-01</u> | | | Date: <u>9.30.14</u> | | Time: <u>1750</u> | | | |
|---|------------------------|---|----------------------------------|-----|---------------------------------------|----------------------|-----------------------------------|---|---|--------------|--|
| Station ID: <u>CM-RW-10</u> | | Latitude/Northing: <u>33.71939°</u> | | | Longitude/Easting: <u>-118.27905°</u> | | | Water Depth (ft): <u>38.2</u> | | | |
| Weather Conditions: <u>Sunny, warm</u> | | | | | | | | Field Personnel: <u>BE, CO</u> | | | |
| Wind Speed and Direction (see Beaufort Scale): <u>1-3 mph from SW</u> | | | | | | | | | | | |
| Biological Activity (e.g., presence of fish, birds, macrophytes, phytoplankton): <u>Few birds</u> | | | | | | | | | | | |
| Description of In-water activities (e.g., recreational boating, active discharges): <u>Moderate vessels</u> | | | | | | | | | | | |
| In Situ Field Parameters ¹ and Water Sample Collection | | | | | | | | | | | |
| Time | Depth (m) <u>ft</u> | Surface (S), Mid-depth (M), or Bottom (B) | DO (mg/L) | pH | Salinity (ppt) | Temp (°C) | Chemistry Sample Collected? (Y/N) | Physical Description of Sample ² | Analytes (circle one) | Sample ID | |
| 1750 | 2.0 | S | 7.7 | 8.0 | 28.6 | 20.3 | Y | See comment | TSS only <input checked="" type="radio"/> Full suite | CM-RW-10-G-S | |
| 1755 | 19.0 | M | 7.8 | 8.0 | 28.6 | 18.8 | Y | ↓ | TSS only <input checked="" type="radio"/> Full suite | CM-RW-10-G-M | |
| 1800 | 36.0 | B | 6.5 | 7.9 | 28.6 | 18.0 | Y | ↓ | TSS only <input checked="" type="radio"/> Full suite | CM-RW-10-G-B | |
| | | | | | | | | | TSS only <input type="radio"/> Full suite <input type="radio"/> | | |
| | | | | | | | | | TSS only <input type="radio"/> Full suite <input type="radio"/> | | |
| | | | | | | | | | TSS only <input type="radio"/> Full suite <input type="radio"/> | | |
| | | | | | | | | | TSS only <input type="radio"/> Full suite <input type="radio"/> | | |
| QA/QC Samples Collected: Y <input checked="" type="radio"/> N <input type="radio"/> | | Field duplicate (5% of project) / Field blank (1 during monitoring event) / Rinsate blank (1 during monitoring event) | | | | | | | TSS only <input type="radio"/> Full suite <input type="radio"/> | | |
| Comments (include photographs taken, if any): <u>No floating material, color, odor or sheen.</u> | | | | | | | | | | | |

- Notes:
- Field measurements will be made in triplicate on 5 percent of measurements to ensure project DQOs are met. These measurements will be recorded on the next page.
 - Description should include suspended or floating material, color, odor, or sheen.

Water Quality Sample Form

| Project Name: <u>TMDL Compliance WQ</u> | | | Project Number: <u>141205-01</u> | | | Date: <u>9.30.14</u> | | Time: <u>0900</u> | | | |
|---|------------------------------|---|----------------------------------|-----|---------------------------------------|----------------------|--|---|----------------------------|--------------|--|
| Station ID: <u>CB-RW-11</u> | | Latitude/Northing: <u>33.71243°</u> | | | Longitude/Easting: <u>-118.28090°</u> | | | Water Depth (ft): <u>13.2</u> | | | |
| Weather Conditions: <u>Sunny, warm</u> | | | | | | | | Field Personnel: <u>BG, CO</u> | | | |
| Wind Speed and Direction (see Beaufort Scale): <u><1 mph from NE</u> | | | | | | | | | | | |
| Biological Activity (e.g., presence of fish, birds, macrophytes, phytoplankton): <u>few birds</u> | | | | | | | | | | | |
| Description of In-water activities (e.g., recreational boating, active discharges): <u>few recreation boaters (kayak fisherman)</u> | | | | | | | | | | | |
| In Situ Field Parameters ¹ and Water Sample Collection | | | | | | | | | | | |
| Time | Depth (m) # | Surface (S), Mid-depth (M), or Bottom (B) | DO (mg/L) | pH | Salinity (ppt) | Temp (°C) | Chemistry Sample Collected? (Y/N) | Physical Description of Sample ² | Analytes (circle one) | Sample ID | |
| 0900 | 2.0 | S | 7.8 | 8.0 | 28.6 | 18.9 | Y | See Comment | TSS only <u>Full suite</u> | CB-RW-11-G-S | |
| 0905 | 6.5 | M | 7.8 | 8.0 | 28.6 | 18.8 | Y | ↓ | <u>TSS only</u> Full suite | CB-RW-11-G-M | |
| 0910 | 12.5 | B | 7.1 | 7.9 | 28.6 | 18.6 | Y | | <u>TSS only</u> Full suite | CB-RW-11-G-B | |
| | | | | | | | | | TSS only Full suite | | |
| | | | | | | | | | TSS only Full suite | | |
| | | | | | | | | | TSS only Full suite | | |
| | | | | | | | | | TSS only Full suite | | |
| QA/QC Samples Collected: <u>Y</u> /N | | Field duplicate (5% of project) / Field blank (1 during monitoring event) / Rinsate blank (1 during monitoring event) | | | | | | | TSS only Full suite | | |
| Comments (include photographs taken, if any): <u>Lab Dup @ M, TSS only</u> <u>Moved 229 ft from target station due to "no motored vessels" area.</u> <u>NO floating material, color, odor, or sheen.</u> | | | | | | | | | | | |

- Notes:
- Field measurements will be made in triplicate on 5 percent of measurements to ensure project DQOs are met. These measurements will be recorded on the next page.
 - Description should include suspended or floating material, color, odor, or sheen.



Water Quality Sample Form

| Project Name: TMDL compliance WQ | | | Project Number: 121205 141205-01 | | | Date: 9.28.14 | | | Time: 1220 | | | |
|---|-----------------|---|----------------------------------|-----|--------------------------------|---------------|-----------------------------------|---|-----------------------|------------|--------------|--|
| Station ID: IB-RW-12 | | Latitude/Northing: 33.76740° | | | Longitude/Easting: -118.23348° | | | Water Depth (ft): 41.0 | | | | |
| Weather Conditions: Sunny, warm | | | | | | | | Field Personnel: BG, DF | | | | |
| Wind Speed and Direction (see Beaufort Scale): 1-3 mph from SW | | | | | | | | | | | | |
| Biological Activity (e.g., presence of fish, birds, macrophytes, phytoplankton): None | | | | | | | | | | | | |
| Description of In-water activities (e.g., recreational boating, active discharges): None | | | | | | | | | | | | |
| In Situ Field Parameters ¹ and Water Sample Collection | | | | | | | | | | | | |
| Time | Depth (m) ft | Surface (S), Mid-depth (M), or Bottom (B) | DO (mg/L) | pH | Salinity (ppt) | Temp (°C) | Chemistry Sample Collected? (Y/N) | Physical Description of Sample ² | Analytes (circle one) | | Sample ID | |
| 1220 | 2.0 | S | 8.1 | 8.1 | 30.9 | 19.5 | Y | See comments ↓ | TSS only | Full suite | IB-RW-12-G-S | |
| 1222 | 30.5 | M | 7.7 | 8.1 | 30.9 | 18.6 | Y | | TSS only | Full suite | IB-RW-12-G-M | |
| 1222 | 30.5 | M | 7.7 | 8.1 | 30.9 | 18.6 | N | | TSS only | Full suite | | |
| 1223 | 30.5 | M | 7.7 | 8.1 | 30.9 | 18.5 | N | | TSS only | Full suite | | |
| 1228 | 40.0 | B | 7.5 | 8.1 | 30.9 | 17.5 | Y | | TSS only | Full suite | IB-RW-12-G-B | |
| | | | | | | | | | TSS only | Full suite | | |
| | | | | | | | | | TSS only | Full suite | | |
| QA/QC Samples Collected: Y/N | | Field duplicate (5% of project) / Field blank (1 during monitoring event) / Rinsate blank (1 during monitoring event) | | | | | | | TSS only | | Full suite | |
| Comments (include photographs taken, if any): No floating material, color, odor or sheen. Station coordinates did not match up w/ map. Used target coordinates. | | | | | | | | | | | | |

- Notes:
- Field measurements will be made in triplicate on 5 percent of measurements to ensure project DQOs are met. These measurements will be recorded on the next page.
 - Description should include suspended or floating material, color, odor, or sheen.

DQO Measurements

| Project Name: <u>TMDL Compliance WQ</u> | | | Project Number: <u>141205-01</u> | | | | |
|---|---|-------------------|----------------------------------|------------|----------------------|--------------|----------|
| Station ID: <u>IB-RW-12</u> | | Time: <u>1222</u> | | | Date: <u>9.28.14</u> | | |
| In Situ Field Parameters ¹ | | | | | | | |
| Time | Surface (S), Mid-depth (M), or Bottom (B) | Depth (m) | DO (mg/L) | pH (units) | Salinity (ppt) | Temp (°C) | Comments |
| 1222 | M | 30.5 | 7.7 | 8.1 | 30.9 | 18.6 | |
| 1222 | M | 30.5 | 7.7 ^{bc} | 8.1 | 30.9 | 18.6 | |
| 1223 | M | 30.5 | 7.7 | 8.1 | 30.9 | 18.5 | |
| Average | | 30.5 | 7.7 | 8.1 | 30.9 | 18.6 | |
| Difference between max and min | | 0 | 0 | 0 | 0 | 0.1 | |
| RPD | | 0 | 0 | 0 | 0 | 0.5 | |
| Precision | | ± 0.1 | 5 percent | ± 0.2 | ± 0.2 | ± 0.5 °C | |
| DQO Met? (Y/N) ² | | Y | Y | Y | Y | Y | |
| Time | Surface (S), Mid-depth (M), or Bottom (B) | Depth (m) | DO (mg/L) | pH | Salinity (ppt) | Temp (°C) | Comments |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| Average | | | | | | | |
| Difference between max and min | | | | | | | |
| RPD | | | | | | | |
| Precision | | ± 0.1 | 5 percent | ± 0.2 | ± 0.2 | ± 0.5 °C | |
| DQO Met? (Y/N) ² | | | | | | | |
| Comments: | | | | | | | |

Notes:

- Field measurements will be made in triplicate on 5 percent of measurements to ensure project DQOs are met. Each result will be recorded along with the average of the three results, the difference between the largest and smallest result, and the percent difference between the largest and smallest result. The percent difference will be calculated as follows:

$$\text{Percent difference} = 100 * (\text{largest} - \text{smallest}) / \text{average}$$

Triplicate measurements, the average of the results, and percent difference will be recorded on the field data sheet. The percent difference, as appropriate, will be compared against the precision criteria established for field measurements in Table 7.

- If no, write corrective actions taken in the comments box (e.g., re-calibrated instrument, etc.) and re-measure.

Water Quality Sample Form

| Project Name: <u>TMDL Compliance WQ</u> | | Project Number: <u>141205-01</u> | | Date: <u>9.28.14</u> | | Time: <u>1307</u> | | | | | |
|--|-------------------------------------|---|--------------------------------------|----------------------|-------------------------------|--------------------------------|--|---|----------------------------|---------------------|--|
| Station ID: <u>IB-RW-B</u> | Latitude/Northing: <u>33 75367°</u> | | Longitude/Easting: <u>118.21620°</u> | | Water Depth (ft): <u>81.5</u> | | | | | | |
| Weather Conditions: <u>Sunny, warm</u> | | | | | | Field Personnel: <u>BE, DF</u> | | | | | |
| Wind Speed and Direction (see Beaufort Scale): <u>8-12 mph from SW</u> | | | | | | | | | | | |
| Biological Activity (e.g., presence of fish, birds, macrophytes, phytoplankton): <u>few birds</u> | | | | | | | | | | | |
| Description of In-water activities (e.g., recreational boating, active discharges): <u>1 tour vessel</u> | | | | | | | | | | | |
| In Situ Field Parameters ¹ and Water Sample Collection | | | | | | | | | | | |
| Time | Depth (m) <u>ft</u> | Surface (S), Mid-depth (M), or Bottom (B) | DO (mg/L) | pH | Salinity (ppt) | Temp (°C) | Chemistry Sample Collected? (Y/N) | Physical Description of Sample ² | Analytes (circle one) | Sample ID | |
| <u>1307</u> | <u>2</u> | <u>S</u> | <u>8.1</u> | <u>8.2</u> | <u>30.9</u> | <u>19.2</u> | <u>Y</u> | <u>see comments</u> | TSS only <u>Full suite</u> | <u>IB-RW-13-G-S</u> | |
| <u>1312</u> | <u>40.0</u> | <u>M</u> | <u>7.8</u> | <u>8.1</u> | <u>30.9</u> | <u>17.7</u> | <u>X</u> | <u>↓</u> | <u>TSS only</u> Full suite | <u>IB-RW-13-G-M</u> | |
| <u>1317</u> | <u>80.0</u> | <u>B</u> | <u>7.7</u> | <u>8.1</u> | <u>30.9</u> | <u>17.1</u> | <u>Y</u> | <u>↓</u> | <u>TSS only</u> Full suite | <u>IB-RW-13-G-B</u> | |
| | | | | | | | | | TSS only Full suite | | |
| | | | | | | | | | TSS only Full suite | | |
| | | | | | | | | | TSS only Full suite | | |
| | | | | | | | | | TSS only Full suite | | |
| QA/QC Samples Collected: <u>Y</u> / <u>N</u> | | Field duplicate (5% of project) / Field blank (1 during monitoring event) / Rinsate blank (1 during monitoring event) | | | | | | | TSS only Full suite | | |
| Comments (include photographs taken, if any): <u>No floating material, color, odor or sheen</u> | | | | | | | | | | | |

- Notes:
- Field measurements will be made in triplicate on 5 percent of measurements to ensure project DQOs are met. These measurements will be recorded on the next page.
 - Description should include suspended or floating material, color, odor, or sheen.



Water Quality Sample Form

| Project Name: TMDL Compliance WQ | | | Project Number: 141205-01 | | | Date: 9.28.14 | | | Time: 1340 | | | |
|--|-----------|---|---------------------------|-----|-------------------------------|---------------|-----------------------------------|---|-----------------------|------------|--------------|--|
| Station ID: IB-RW-14 | | Latitude/Northing: 33.74874° | | | Longitude/Easting: 118.23112° | | | Water Depth (ft): 52.5 | | | | |
| Weather Conditions: Sunny, warm | | | | | | | | Field Personnel: BG, DF | | | | |
| Wind Speed and Direction (see Beaufort Scale): 8-12 mph from SW | | | | | | | | | | | | |
| Biological Activity (e.g., presence of fish, birds, macrophytes, phytoplankton): few birds | | | | | | | | | | | | |
| Description of In-water activities (e.g., recreational boating, active discharges): None | | | | | | | | | | | | |
| In Situ Field Parameters ¹ and Water Sample Collection | | | | | | | | | | | | |
| Time | Depth (m) | Surface (S), Mid-depth (M), or Bottom (B) | DO (mg/L) | pH | Salinity (ppt) | Temp (°C) | Chemistry Sample Collected? (Y/N) | Physical Description of Sample ² | Analytes (circle one) | | Sample ID | |
| 1340 | 2 | S | 8.3 | 8.2 | 30.9 | 19.6 | Y | see comment | TSS only | Full suite | IB-RW-14-G-S | |
| 1342 | 26.0 | M | 7.8 | 8.1 | 30.9 | 18.3 | Y | ↓ | TSS only | Full suite | IB-RW-14-G-M | |
| 1342 | 26.0 | M | 7.8 | 8.1 | 30.9 | 18.3 | N | | TSS only | Full suite | | |
| 1342 | 26.0 | M | 7.8 | 8.1 | 30.9 | 18.3 | N | | TSS only | Full suite | | |
| 1344 | 50.0 | B | 7.4 | 8.1 | 30.9 | 17.3 | Y | ↓ | TSS only | Full suite | IB-RW-14-G-B | |
| | | | | | | | | | TSS only | Full suite | | |
| | | | | | | | | | TSS only | Full suite | | |
| QA/QC Samples Collected: Y/N | | Field duplicate (5% of project) / Field blank (1 during monitoring event) / Rinsate blank (1 during monitoring event) | | | | | | | TSS only | | Full suite | |
| Comments (include photographs taken, if any): No floating material, color, odor or sheen | | | | | | | | | | | | |

- Notes:
- Field measurements will be made in triplicate on 5 percent of measurements to ensure project DQOs are met. These measurements will be recorded on the next page.
 - Description should include suspended or floating material, color, odor, or sheen.

DQO Measurements

| Project Name: <u>TMDL Compliance WQ</u> | | | Project Number: <u>14/205-01</u> | | | | |
|---|---|-------------------|----------------------------------|------------|----------------------|--------------|----------|
| Station ID: <u>IB-RW-14</u> | | Time: <u>1342</u> | | | Date: <u>9.28.14</u> | | |
| In Situ Field Parameters ¹ | | | | | | | |
| Time | Surface (S), Mid-depth (M), or Bottom (B) | Depth (m) | DO (mg/L) | pH (units) | Salinity (ppt) | Temp (°C) | Comments |
| 1342 | M | 26.0 | 7.8 | 8.1 | 30.9 | 18.3 | |
| 1342 | M | 26.0 | 7.8 | 8.1 | 30.9 | 18.3 | |
| 1342 | M | 26.0 | 7.8 | 8.1 | 30.9 | 18.3 | |
| Average | | 26.0 | 7.8 | 8.1 | 30.9 | 18.3 | |
| Difference between max and min | | 0 | 0 | 0 | 0 | 0 | |
| RPD | | 0 | 0 | 0 | 0 | 0 | |
| Precision | | ± 0.1 | 5 percent | ± 0.2 | ± 0.2 | ± 0.5 °C | |
| DQO Met? (Y/N) ² | | Y | Y | Y | Y | Y | |
| Time | Surface (S), Mid-depth (M), or Bottom (B) | Depth (m) | DO (mg/L) | pH | Salinity (ppt) | Temp (°C) | Comments |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| Average | | | | | | | |
| Difference between max and min | | | | | | | |
| RPD | | | | | | | |
| Precision | | ± 0.1 | 5 percent | ± 0.2 | ± 0.2 | ± 0.5 °C | |
| DQO Met? (Y/N) ² | | | | | | | |
| Comments: | | | | | | | |

Notes:

- Field measurements will be made in triplicate on 5 percent of measurements to ensure project DQOs are met. Each result will be recorded along with the average of the three results, the difference between the largest and smallest result, and the percent difference between the largest and smallest result. The percent difference will be calculated as follows:

$$\text{Percent difference} = 100 * (\text{largest} - \text{smallest}) / \text{average}$$

Triplicate measurements, the average of the results, and percent difference will be recorded on the field data sheet. The percent difference, as appropriate, will be compared against the precision criteria established for field measurements in Table 7.

- If no, write corrective actions taken in the comments box (e.g., re-calibrated instrument, etc.) and re-measure.

Water Quality Sample Form

| Project Name: <u>TMDL Compliance WQ</u> | | | Project Number: <u>141205-01</u> | | | Date: <u>9.23.14</u> | | Time: <u>1417</u> | | | |
|--|------------------------|---|----------------------------------|------------|--------------------------------------|----------------------|-----------------------------------|---|----------------------------|---------------------|--|
| Station ID: <u>IB-RW-15</u> | | Latitude/Northing: <u>33.74202°</u> | | | Longitude/Easting: <u>118.19906°</u> | | | Water Depth (ft): <u>59.2</u> | | | |
| Weather Conditions: <u>Sunny, warm</u> | | | | | | | Field Personnel: <u>BG, DF</u> | | | | |
| Wind Speed and Direction (see Beaufort Scale): <u>1-3 mph from SW</u> | | | | | | | | | | | |
| Biological Activity (e.g., presence of fish, birds, macrophytes, phytoplankton): <u>None</u> | | | | | | | | | | | |
| Description of In-water activities (e.g., recreational boating, active discharges): <u>None</u> | | | | | | | | | | | |
| In Situ Field Parameters ¹ and Water Sample Collection | | | | | | | | | | | |
| Time | Depth (m) <u>ft</u> | Surface (S), Mid-depth (M), or Bottom (B) | DO (mg/L) | pH | Salinity (ppt) | Temp (°C) | Chemistry Sample Collected? (Y/N) | Physical Description of Sample ² | Analytes (circle one) | Sample ID | |
| <u>1417</u> | <u>2</u> | <u>S</u> | <u>8.3</u> | <u>8.2</u> | <u>30.9</u> | <u>19.5</u> | <u>Y</u> | <u>See comments</u> | TSS only <u>Full suite</u> | <u>IB-RW-15-G-S</u> | |
| <u>1420</u> | <u>30.0</u> | <u>M</u> | <u>8.0</u> | <u>8.2</u> | <u>30.9</u> | <u>18.2</u> | <u>Y</u> | <u>↓</u> | <u>TSS only</u> Full suite | <u>IB-RW-15-G-M</u> | |
| <u>1423</u> | <u>57.0</u> | <u>B</u> | <u>7.9</u> | <u>8.1</u> | <u>30.9</u> | <u>16.7</u> | <u>Y</u> | <u>↓</u> | <u>TSS only</u> Full suite | <u>IB-RW-15-G-B</u> | |
| | | | | | | | | | TSS only Full suite | | |
| | | | | | | | | | TSS only Full suite | | |
| | | | | | | | | | TSS only Full suite | | |
| | | | | | | | | | TSS only Full suite | | |
| QA/QC Samples Collected: Y/N <u>○</u> | | Field duplicate (5% of project) / Field blank (1 during monitoring event) / Rinsate blank (1 during monitoring event) | | | | | | | TSS only Full suite | | |
| Comments (include photographs taken, if any): <u>2 photos (general) No floating material, color, odor or sheen</u> | | | | | | | | | | | |

- Notes:
1. Field measurements will be made in triplicate on 5 percent of measurements to ensure project DQOs are met. These measurements will be recorded on the next page.
 2. Description should include suspended or floating material, color, odor, or sheen.

Water Quality Sample Form

| Project Name: <u>TMDL Compliance WQ</u> | | Project Number: <u>141205-01</u> | | Date: <u>9.28.14</u> | | Time: <u>1125</u> | | | | |
|--|-------------------------------|---|--------------|---------------------------------------|-------------------|--------------------------------|--|---|----------------------------|---------------------|
| Station ID: <u>OB-RW-16</u> | | Latitude/Northing: <u>33.73129°</u> | | Longitude/Easting: <u>-118.22144°</u> | | Water Depth (ft): <u>01.1</u> | | | | |
| Weather Conditions: <u>Sunny, warm</u> | | | | | | Field Personnel: <u>BG, DF</u> | | | | |
| Wind Speed and Direction (see Beaufort Scale): <u>1-3 mph from SE</u> | | | | | | | | | | |
| Biological Activity (e.g., presence of fish, birds, macrophytes, phytoplankton): <u>few birds</u> | | | | | | | | | | |
| Description of In-water activities (e.g., recreational boating, active discharges): <u>few vessels</u> | | | | | | | | | | |
| In Situ Field Parameters ¹ and Water Sample Collection | | | | | | | | | | |
| Time | Depth (m) ft | Surface (S), Mid-depth (M), or Bottom (B) | DO (mg/L) | pH | Salinity (ppt) | Temp (°C) | Chemistry Sample Collected? (Y/N) | Physical Description of Sample ² | Analytes (circle one) | Sample ID |
| <u>1125</u> | <u>2.0</u> | <u>S</u> | <u>8.4</u> | <u>8.1</u> | <u>30.9</u> | <u>19.3</u> | <u>Y</u> | <u>See comments</u> | TSS only <u>Full suite</u> | <u>OB-RW-16-G-S</u> |
| <u>1130</u> | <u>30.0</u> | <u>M</u> | <u>8.2</u> | <u>8.1</u> | <u>30.9</u> | <u>18.3</u> | <u>Y</u> | ↓ | <u>TSS only</u> Full suite | <u>OB-RW-16-G-M</u> |
| <u>1135</u> | <u>00.0</u> | <u>B</u> | <u>8.2</u> | <u>8.1</u> | <u>30.9</u> | <u>17.9</u> | <u>Y</u> | ↓ | <u>TSS only</u> Full suite | <u>OB-RW-16-G-B</u> |
| | | | | | | | | | TSS only Full suite | |
| | | | | | | | | | TSS only Full suite | |
| | | | | | | | | | TSS only Full suite | |
| | | | | | | | | | TSS only Full suite | |
| QA/QC Samples Collected: <u>Y</u> / <u>N</u> | | Field duplicate (5% of project) / Field blank (1 during monitoring event) / Rinsate blank (1 during monitoring event) | | | | | | TSS only Full suite | | |
| Comments (include photographs taken, if any): <u>No floating material, color, odor, or sheen</u> | | | | | | | | | | |

- Notes:
1. Field measurements will be made in triplicate on 5 percent of measurements to ensure project DQOs are met. These measurements will be recorded on the next page.
 2. Description should include suspended or floating material, color, odor, or sheen.



Water Quality Sample Form

| Project Name: <u>TMDL Compliance WQ</u> | | | Project Number: <u>141205-01</u> | | | Date: <u>9.26.14</u> | | | Time: <u>1620</u> | | |
|--|---------------------------|---|----------------------------------|-----|--------------------------------------|----------------------|--|---|--|-------------------|---------------------|
| Station ID: <u>03-RW-17</u> | | Latitude/Northing: <u>33.72765°</u> | | | Longitude/Easting: <u>118.18647°</u> | | | Water Depth (ft): <u>78.5</u> | | | |
| Weather Conditions: <u>Sunny, Warm</u> | | | | | | | | Field Personnel: <u>BG, DE</u> | | | |
| Wind Speed and Direction (see Beaufort Scale): <u>13-17 mph from SW</u> | | | | | | | | | | | |
| Biological Activity (e.g., presence of fish, birds, macrophytes, phytoplankton): <u>few birds</u> | | | | | | | | | | | |
| Description of In-water activities (e.g., recreational boating, active discharges): <u>few vessels</u> | | | | | | | | | | | |
| In Situ Field Parameters ¹ and Water Sample Collection | | | | | | | | | | | |
| Time | Depth <u>(m)</u> ft | Surface (S), Mid-depth (M), or Bottom (B) | DO (mg/L) | pH | Salinity (ppt) | Temp (°C) | Chemistry Sample Collected? (Y/N) | Physical Description of Sample ² | Analytes (circle one) | | Sample ID |
| 1620 | 2.0 | S | 8.3 | 8.2 | 31.8 | 19.6 | X | see comment | TSS only | <u>Full suite</u> | 03-RW-17-G-S |
| 1625 | 39.0 | M | 8.4 | 8.2 | 31.8 | 19.4 | X | ↓ | <u>TSS only</u> | Full suite | 03-RW-17-G-M |
| 1630 | 76.0 | B | 6.1 | 8.2 | 31.6 | 16.5 | Y | | <u>TSS only</u> | Full suite | 03-RW-17-G-B |
| | | | | | | | | | | TSS only | Full suite |
| | | | | | | | | | TSS only | Full suite | |
| | | | | | | | | | TSS only | Full suite | |
| | | | | | | | | | TSS only | Full suite | |
| QA/QC Samples Collected: Y / N | | | | | | | | | Field duplicate (5% of project) / Field blank (1 during monitoring event) / Rinsate blank (1 during monitoring event) <u>TSS - m</u> | | TSS only Full suite |
| Comments (include photographs taken, if any): <u>No floating material, color, odor or sheen</u> | | | | | | | | | | | |

- Notes:
1. Field measurements will be made in triplicate on 5 percent of measurements to ensure project DQOs are met. These measurements will be recorded on the next page.
 2. Description should include suspended or floating material, color, odor, or sheen.

Water Quality Sample Form

| Project Name: <u>TMDL Compliance WA</u> | | Project Number: <u>14/205-01</u> | | Date: <u>9.26.14</u> | | Time: <u>1330</u> | | | | |
|--|--------------------|---|--------------|---------------------------------------|-------------------|--------------------------------|--|---|----------------------------|--------------|
| Station ID: <u>SP-RW-18</u> | | Latitude/Northing: <u>33.75335°</u> | | Longitude/Easting: <u>-118.18125°</u> | | Water Depth (ft): <u>41.0</u> | | | | |
| Weather Conditions: <u>Sunny, warm</u> | | | | | | Field Personnel: <u>BG, DF</u> | | | | |
| Wind Speed and Direction (see Beaufort Scale): <u>8-12 mph</u> <u>+ 3 mph from SE SW</u> | | | | | | | | | | |
| Biological Activity (e.g., presence of fish, birds, macrophytes, phytoplankton): <u>None</u> | | | | | | | | | | |
| Description of In-water activities (e.g., recreational boating, active discharges): <u>Few vessels</u> | | | | | | | | | | |
| In Situ Field Parameters ¹ and Water Sample Collection | | | | | | | | | | |
| Time | Depth (m) ft | Surface (S), Mid-depth (M), or Bottom (B) | DO (mg/L) | pH | Salinity (ppt) | Temp (°C) | Chemistry Sample Collected? (Y/N) | Physical Description of Sample ² | Analytes (circle one) | Sample ID |
| 1330 | 2 | S | 7.9 | 8.2 | 31.0 | 21.0 | Y | See comment | TSS only <u>Full suite</u> | SP-RW-18-G-S |
| 1335 | 20.5 | M | 8.3 | 8.2 | 31.7 | 19.2 | Y | ↓ | <u>TSS only</u> Full suite | SP-RW-18-G-M |
| 1340 | 39.0 | B | 7.1 | 8.1 | 31.7 | 18.6 | Y | ↓ | <u>TSS only</u> Full suite | SP-RW-18-G-B |
| | | | | | | | | | TSS only Full suite | |
| | | | | | | | | | TSS only Full suite | |
| | | | | | | | | | TSS only Full suite | |
| | | | | | | | | | TSS only Full suite | |
| QA/QC Samples Collected: Y / N | | Field duplicate (5% of project) / Field blank (1 during monitoring event) / Rinsate blank (1 during monitoring event) | | | | | | TSS only Full suite | | |
| Comments (include photographs taken, if any): | | | | | | | | <u>NO floating material, color, odor or sheen</u> | | |

- Notes:
- Field measurements will be made in triplicate on 5 percent of measurements to ensure project DQOs are met. These measurements will be recorded on the next page.
 - Description should include suspended or floating material, color, odor, or sheen.



Water Quality Sample Form

| Project Name: <u>TMDL Compliance WQ</u> | | | Project Number: <u>141205-01</u> | | | Date: <u>9.26.14</u> | | | Time: <u>1425</u> | | |
|--|------------------------|---|----------------------------------|------------|---------------------------------------|----------------------|-----------------------------------|---|-----------------------------------|-------------------|---------------------|
| Station ID: <u>SP-RW-19</u> | | Latitude/Northing: <u>33.73648°</u> | | | Longitude/Easting: <u>-118.13123°</u> | | | Water Depth (ft): <u>30.2</u> | | | |
| Weather Conditions: <u>Sunny, warm</u> | | | | | | | | Field Personnel: <u>BG, DF</u> | | | |
| Wind Speed and Direction (see Beaufort Scale): <u>8-12 mph from SW</u> | | | | | | | | | | | |
| Biological Activity (e.g., presence of fish, birds, macrophytes, phytoplankton): <u>None</u> | | | | | | | | | | | |
| Description of In-water activities (e.g., recreational boating, active discharges): <u>None</u> | | | | | | | | | | | |
| In Situ Field Parameters ¹ and Water Sample Collection | | | | | | | | | | | |
| Time | Depth (m) <u>ft</u> | Surface (S), Mid-depth (M), or Bottom (B) | DO (mg/L) | pH | Salinity (ppt) | Temp (°C) | Chemistry Sample Collected? (Y/N) | Physical Description of Sample ² | Analytes (circle one) | | Sample ID |
| <u>1425</u> | <u>2</u> | <u>S</u> | <u>8.3</u> | <u>8.2</u> | <u>31.5</u> | <u>21.0</u> | <u>Y</u> | <u>Strobb see comment</u> | <u>TSS only</u> | <u>Full suite</u> | <u>SP-RW-19-G-S</u> |
| <u>1430</u> | <u>15.0</u> | <u>M</u> | <u>8.3</u> | <u>8.2</u> | <u>31.6</u> | <u>19.6</u> | <u>Y</u> | <u>↓</u> | <u>TSS only</u> | <u>Full suite</u> | <u>SP-RW-19-G-M</u> |
| <u>1435</u> | <u>28.0</u> | <u>B</u> | <u>8.6</u> | <u>8.2</u> | <u>31.7</u> | <u>18.0</u> | <u>Y</u> | <u>↓</u> | <u>TSS only</u> | <u>Full suite</u> | <u>SP-RW-19-G-B</u> |
| | | | | | | | | | <u>TSS only</u> | <u>Full suite</u> | |
| | | | | | | | | | <u>TSS only</u> | <u>Full suite</u> | |
| | | | | | | | | | <u>TSS only</u> | <u>Full suite</u> | |
| | | | | | | | | | <u>TSS only</u> | <u>Full suite</u> | |
| QA/QC Samples Collected: <u>Y</u> / N | | Field duplicate (5% of project) / Field blank (1 during monitoring event) / Rinsate blank (1 during monitoring event) | | | | | | | <u>TSS only</u> <u>Full suite</u> | | |
| Comments (include photographs taken, if any): <u>1 TSS lab dup @ M</u> <u>Strong current taking YSI</u> <u>No floating material, color, odor or sheen</u> | | | | | | | | | | | |

Notes:

- Field measurements will be made in triplicate on 5 percent of measurements to ensure project DQOs are met. These measurements will be recorded on the next page.
- Description should include suspended or floating material, color, odor, or sheen.

Water Quality Sample Form

| Project Name: <u>TMDL compliance WQ</u> | | Project Number: <u>141205-01</u> | | Date: <u>9.26.14</u> | | Time: <u>1525</u> | | | | |
|--|-------------------------------------|---|---------------------------------------|----------------------|--------------------------------|-------------------|--|---|----------------------------|--------------|
| Station ID: <u>SP-RW-20</u> | Latitude/Northing: <u>33.72531°</u> | | Longitude/Easting: <u>-118.15760°</u> | | Water Depth (ft): <u>53.5</u> | | | | | |
| Weather Conditions: <u>Sunny, warm</u> | | | | | Field Personnel: <u>BG, DP</u> | | | | | |
| Wind Speed and Direction (see Beaufort Scale): <u>13-17 mph from SW</u> | | | | | | | | | | |
| Biological Activity (e.g., presence of fish, birds, macrophytes, phytoplankton): <u>None</u> | | | | | | | | | | |
| Description of In-water activities (e.g., recreational boating, active discharges): <u>Few vessels</u> | | | | | | | | | | |
| In Situ Field Parameters ¹ and Water Sample Collection | | | | | | | | | | |
| Time | Depth (ft) | Surface (S), Mid-depth (M), or Bottom (B) | DO (mg/L) | pH | Salinity (ppt) | Temp (°C) | Chemistry Sample Collected? (Y/N) | Physical Description of Sample ² | Analytes (circle one) | Sample ID |
| 1525 | 2 | S | 8.2 | 8.2 | 31.7 | 19.6 | Y | see comment | TSS only <u>Full suite</u> | SP-RW-20-G-S |
| 1536 | 27.0 | M | 8.2 | 8.2 | 31.7 | 17.8 | Y | ↓ | <u>TSS only</u> Full suite | SP-RW-20-G-M |
| 1535 | 51.0 | B | 8.3 | 8.2 | 31.8 | 18.1 | Y | ↓ | <u>TSS only</u> Full suite | SP-RW-20-G-B |
| | | | | | | | | | TSS only Full suite | |
| | | | | | | | | | TSS only Full suite | |
| | | | | | | | | | TSS only Full suite | |
| | | | | | | | | | TSS only Full suite | |
| QA/QC Samples Collected: <u>Y</u> / <u>N</u> | | Field duplicate (5% of project) / Field blank (1 during monitoring event) / Rinsate blank (1 during monitoring event) | | | | | | TSS only Full suite | | |
| Comments (include photographs taken, if any): | | | | | | | | <u>No floating material, color, odor or sheen</u> | | |

Notes:

1. Field measurements will be made in triplicate on 5 percent of measurements to ensure project DQOs are met. These measurements will be recorded on the next page.
2. Description should include suspended or floating material, color, odor, or sheen.

Water Quality Sample Form

| | | | | | | | |
|---|--|-------------------------------------|--|---------------------------------------|--|--------------------------------|--|
| Project Name: <u>TMDL compliance wq</u> | | Project Number: <u>141205-01</u> | | Date: <u>9.26.14</u> | | Time: <u>1030 to 1305</u> | |
| Station ID: <u>LE-RW-21</u> | | Latitude/Northing: <u>33.75400°</u> | | Longitude/Easting: <u>-118.19283°</u> | | Water Depth (ft): <u>6.6</u> | |
| Weather Conditions: <u>Sunny, warm</u> | | | | | | Field Personnel: <u>BB, DF</u> | |
| Wind Speed and Direction (see Beaufort Scale): <u>1-3 mph from SE</u> | | | | | | | |
| Biological Activity (e.g., presence of fish, birds, macrophytes, phytoplankton): <u>Moderate birds</u> | | | | | | | |
| Description of In-water activities (e.g., recreational boating, active discharges): <u>Frequent vessels</u> | | | | | | | |

In Situ Field Parameters¹ and Water Sample Collection

| Time | Depth (m) | Surface (S), Mid-depth (M), or Bottom (B) | DO (mg/L) | pH | Salinity (ppt) | Temp (°C) | Chemistry Sample Collected? (Y/N) | Physical Description of Sample ² | Analytes (circle one) | Sample ID | |
|---------------------------------------|-----------|---|-----------|-----|----------------|-----------|-----------------------------------|---|----------------------------|--------------|--|
| ^{BB} 1305 1037 | 2.0 | S | 6.8 | 8.1 | 30.1 | 21.0 | Y | see comment | TSS only <u>Full suite</u> | LE-RW-21-G-S | |
| 1309 | 3.3 | M | 6.6 | 8.1 | 29.7 | 21.2 | Y | ↓ | <u>TSS only</u> Full suite | LE-RW-21-G-M | |
| 1312 | 5.9 | B | 7.4 | 8.2 | 31.3 | 20.3 | Y | ↓ | <u>TSS only</u> Full suite | LE-RW-21-G-B | |
| | | | | | | | | | TSS only Full suite | | |
| | | | | | | | | | TSS only Full suite | | |
| | | | | | | | | | TSS only Full suite | | |
| | | | | | | | | | TSS only Full suite | | |
| QA/QC Samples Collected: Y/N | | Field duplicate (5% of project) / Field blank (1 during monitoring event) / Rinsate blank (1 during monitoring event) | | | | | | | TSS only Full suite | | |

Comments (include photographs taken, if any): connectivity issues w/ sonde/surveyor. Switched to YSI 6920 v2 prior to collecting surface data.
NO floating material, color, odor, or sheen.

- Notes:
- Field measurements will be made in triplicate on 5 percent of measurements to ensure project DQOs are met. These measurements will be recorded on the next page.
 - Description should include suspended or floating material, color, odor, or sheen.

Water Quality Sample Form

| Project Name: <u>TMDL Compliance WQ</u> | | | Project Number: <u>141205-01</u> | | | Date: <u>9.26.14</u> | | | Time: <u>0957</u> | | | |
|---|--------------------|---|----------------------------------|-----|---------------------------------------|----------------------|--|---|---|---|----------------------------------|--|
| Station ID: <u>LE-RW-22</u> | | Latitude/Northing: <u>33.74123°</u> | | | Longitude/Easting: <u>-118.20204°</u> | | | Water Depth (ft): <u>7.3</u> | | | | |
| Weather Conditions: <u>Sunny, warm</u> | | | | | | | | Field Personnel: <u>BG, DF</u> | | | | |
| Wind Speed and Direction (see Beaufort Scale): <u>1-3 mph from SE</u> | | | | | | | | | | | | |
| Biological Activity (e.g., presence of fish, birds, macrophytes, phytoplankton): <u>Moderate birds</u> | | | | | | | | | | | | |
| Description of In-water activities (e.g., recreational boating, active discharges): <u>Moderate vessels</u> | | | | | | | | | | | | |
| In Situ Field Parameters ¹ and Water Sample Collection | | | | | | | | | | | | |
| Time | Depth (m) ft | Surface (S), Mid-depth (M), or Bottom (B) | DO (mg/L) | pH | Salinity (ppt) | Temp (°C) | Chemistry Sample Collected? (Y/N) | Physical Description of Sample ² | Analytes (circle one) | | Sample ID | |
| 0957 | 3 | S | 5.3 | 8.0 | 31.2 | 20.4 | Y | See comment | TSS only | <input checked="" type="radio"/> Full suite | LE-RW-22-G-S- | |
| 0959 | 3.0 | M | 5.3 | 8.0 | 31.1 | 20.3 | Y | ↓ | <input checked="" type="radio"/> TSS only | <input type="radio"/> Full suite | LE-RW-22-G-M- | |
| 1001 | 6.5 | B | 6.0 | 8.0 | 33.0 | 20.0 | Y | ↓ | <input checked="" type="radio"/> TSS only | <input type="radio"/> Full suite | LE-RW-22-G-B- | |
| | | | | | | | | | <input type="radio"/> TSS only | <input type="radio"/> Full suite | | |
| | | | | | | | | | <input type="radio"/> TSS only | <input type="radio"/> Full suite | | |
| | | | | | | | | | <input type="radio"/> TSS only | <input type="radio"/> Full suite | | |
| | | | | | | | | | <input type="radio"/> TSS only | <input type="radio"/> Full suite | | |
| QA/QC Samples Collected: Y/N | | Field duplicate (5% of project) / Field blank (1 during monitoring event) / Rinsate blank (1 during monitoring event) | | | | | | | <input checked="" type="radio"/> TSS only | | <input type="radio"/> Full suite | |
| Comments (include photographs taken, if any): <u>No floating material, color, odor, or sheen</u> | | | | | | | | | | | | |

- Notes:
1. Field measurements will be made in triplicate on 5 percent of measurements to ensure project DQOs are met. These measurements will be recorded on the next page.
 2. Description should include suspended or floating material, color, odor, or sheen.



Water Quality Sample Form

| Project Name: <i>TMDL Compliance NGA</i> | | | Project Number: <i>141205-01.01</i> | | | Date: <i>7/7/15</i> | | | Time: <i>0955</i> | | |
|--|-----------|---|-------------------------------------|------------|-------------------------------------|---------------------|-----------------------------------|---|--|------------------------------|-----------|
| Station ID: <i>CS-RW-01</i> | | Latitude/Northing: <i>33 77485</i> | | | Longitude/Easting: <i>118.24525</i> | | | Water Depth (ft): <i>18.7</i> (m): <i>6.1</i> | | | |
| Weather Conditions: <i>overcast</i> | | | | | | | | Field Personnel: <i>CP / AC</i> | | | |
| Wind Speed and Direction (see Beaufort Scale): <i>moderate breeze</i> | | | | | | | | Recorded By: <i>CD</i> | | | |
| Biological Activity (e.g., presence of fish, birds, macrophytes, phytoplankton): <i>1 cormorant</i> | | | | | | | | | | | |
| Description of In-water activities (e.g., recreational boating, active discharges): <i>Mudson dredger - pile pulling</i> | | | | | | | | | | | |
| In Situ Field Parameters ¹ and Water Sample Collection | | | | | | | | | | | |
| Time | Depth (m) | Surface (S), Mid-depth (M), or Bottom (B) | DO (mg/L) | pH | Salinity (ppt) | Temp (°C) | Chemistry Sample Collected? (Y/N) | Physical Description of Sample ² | Analytes (circle one) | | Sample ID |
| <i>0955</i> | <i>1</i> | <i>S</i> | <i>7.4</i> | <i>7.9</i> | <i>30.4</i> | <i>19.4</i> | <i>Y</i> | <i>see comment</i> | <i>TSS only</i> <u><i>Full suite</i></u> | <i>CS-RW-01-G-S-20150707</i> | |
| <i>1010</i> | <i>3</i> | <i>M</i> | <i>7.2</i> | <i>8.0</i> | <i>30.9</i> | <i>17.8</i> | <i>Y</i> | <i>↓</i> | <i>TSS only</i> <u><i>Full suite</i></u> | <i>CS-RW-01-G-M-20150707</i> | |
| <i>1015</i> | <i>5</i> | <i>B</i> | <i>7.1</i> | <i>8.0</i> | <i>31.1</i> | <i>17.0</i> | <i>Y</i> | <i>↓</i> | <u><i>TSS only</i></u> <i>Full suite</i> | <i>CS-RW-01-G-B-20150707</i> | |
| | | | | | | | | | <i>TSS only</i> <i>Full suite</i> | | |
| | | | | | | | | | <i>TSS only</i> <i>Full suite</i> | | |
| | | | | | | | | | <i>TSS only</i> <i>Full suite</i> | | |
| | | | | | | | | | <i>TSS only</i> <i>Full suite</i> | | |
| QA/QC Samples Collected: <i>Y</i> / <i>N</i> | | Field duplicate (5% of project) / Field blank (1 during monitoring event) / Rinsate blank (1 during monitoring event) | | | | | | | <i>TSS only</i> <i>Full suite</i> | | |
| Comments (include photographs taken, if any): <i>no floating material, color, odor, or sheen</i> | | | | | | | | | | | |

- Notes:
- Field measurements will be made in triplicate on 5 percent of measurements to ensure project DQOs are met. These measurements will be recorded on the next page.
 - Description should include suspended or floating material, color, odor, or sheen.



Water Quality Sample Form

| Project Name: <u>TMDL Compliance WQ</u> | | | Project Number: <u>191285-01.01</u> | | | Date: <u>7/7/15</u> | | Time: <u>1030</u> | | | |
|---|------------|--|-------------------------------------|-------------------------------------|----------------|--|-----------------------------------|---|----------------------------|------------------------------|--|
| Station ID: <u>IA-RW-02</u> | | Latitude/Northing: <u>33.70291</u> | | Longitude/Easting: <u>118.25475</u> | | Water Depth (ft): <u>56.5</u> (m): <u>17.2</u> | | | | | |
| Weather Conditions: <u>overcast</u> | | | | | | | Field Personnel: <u>CD / AC</u> | | | | |
| Wind Speed and Direction (see Beaufort Scale): <u>n/a</u> | | | | | | | Recorded By: <u>CD</u> | | | | |
| Biological Activity (e.g., presence of fish, birds, macrophytes, phytoplankton): <u>n/a</u> | | | | | | | | | | | |
| Description of In-water activities (e.g., recreational boating, active discharges): <u>1 barge offloading</u> | | | | | | | | | | | |
| In Situ Field Parameters ¹ and Water Sample Collection | | | | | | | | | | | |
| Time | Depth (m) | Surface (S), Mid-depth (M), or Bottom (B) | DO (mg/L) | pH | Salinity (ppt) | Temp (°C) | Chemistry Sample Collected? (Y/N) | Physical Description of Sample ² | Analytes (circle one) | Sample ID | |
| <u>1030</u> | <u>1</u> | <u>S</u> | <u>7.9</u> | <u>8.1</u> | <u>31.1</u> | <u>18.1</u> | <u>Y</u> | <u>see comment</u> | TSS only <u>Full suite</u> | <u>IA-RW-02-G-J-20150707</u> | |
| <u>1035</u> | <u>8.5</u> | <u>M</u> | <u>8.0</u> | <u>8.1</u> | <u>31.2</u> | <u>16.8</u> | <u>Y</u> | <u>↓</u> | <u>TSS only</u> Full suite | <u>IA-RW-02-G-M-20150707</u> | |
| <u>1040</u> | <u>16</u> | <u>B</u> | <u>7.8</u> | <u>8.1</u> | <u>31.3</u> | <u>15.4</u> | <u>Y</u> | <u>↓</u> | <u>TSS only</u> Full suite | <u>IA-RW-02-G-B-20150707</u> | |
| | | | | | | | | | TSS only Full suite | | |
| | | | | | | | | | TSS only Full suite | | |
| | | | | | | | | | TSS only Full suite | | |
| | | | | | | | | | TSS only Full suite | | |
| QA/QC Samples Collected: <u>Y</u> N | | Field duplicate (5% of project) / Field blank (1 during monitoring event) / Rinsate blank (1 during monitoring event) <u>Chemistry Field Dup</u> | | | | | | | TSS only Full suite | | |
| Comments (include photographs taken, if any): <u>No floating material, color, odor or sheen</u> | | | | | | | | | | | |

- Notes:
- Field measurements will be made in triplicate on 5 percent of measurements to ensure project DQOs are met. These measurements will be recorded on the next page.
 - Description should include suspended or floating material, color, odor, or sheen.



Water Quality Sample Form

| Project Name: <u>TMDL Compliance WQ</u> | | | Project Number: <u>141205-01.01</u> | | | Date: <u>7/7/15</u> | | Time: <u>1122</u> | | |
|---|------------|---|-------------------------------------|-------------------------------------|----------------|--|-----------------------------------|---|----------------------------|------------------------------|
| Station ID: <u>JA-RW-03</u> | | Latitude/Northing: <u>33.76237</u> | | Longitude/Easting: <u>118.27403</u> | | Water Depth (ft): <u>58.5</u> (m): <u>17.8</u> | | Field Personnel: <u>CD/AC</u> | | |
| Weather Conditions: <u>overcast</u> | | | | | | | | Recorded By: <u>CD</u> | | |
| Wind Speed and Direction (see Beaufort Scale): <u>n/a</u> | | | | | | | | Biological Activity (e.g., presence of fish, birds, macrophytes, phytoplankton): <u>n/a</u> | | |
| Description of In-water activities (e.g., recreational boating, active discharges): <u>1 barge offloading</u> | | | | | | | | | | |
| In Situ Field Parameters ¹ and Water Sample Collection | | | | | | | | | | |
| Time | Depth (m) | Surface (S), Mid-depth (M), or Bottom (B) | DO (mg/L) | pH | Salinity (ppt) | Temp (°C) | Chemistry Sample Collected? (Y/N) | Physical Description of Sample ² | Analytes (circle one) | Sample ID |
| <u>1122</u> | <u>1</u> | <u>S</u> | <u>5.0</u> | <u>8.1</u> | <u>32.2</u> | <u>19.5</u> | <u>Y</u> | <u>see comment</u> | TSS only <u>Full suite</u> | <u>JA-RW-03-G-S-20150707</u> |
| <u>1127</u> | <u>8.5</u> | <u>M</u> | <u>5.1</u> | <u>8.1</u> | <u>32.3</u> | <u>16.7</u> | <u>Y</u> | <u>↓</u> | <u>TSS only</u> Full suite | <u>JA-RW-03-G-M-20150707</u> |
| <u>1130</u> | <u>16</u> | <u>B</u> | <u>4.4</u> | <u>8.1</u> | <u>32.2</u> | <u>16.0</u> | <u>Y</u> | <u>↓</u> | <u>TSS only</u> Full suite | <u>JA-RW-03-G-B-20150707</u> |
| | | | | | | | | | TSS only Full suite | |
| | | | | | | | | | TSS only Full suite | |
| | | | | | | | | | TSS only Full suite | |
| | | | | | | | | | TSS only Full suite | |
| QA/QC Samples Collected: <u>Y</u> / <u>N</u> | | Field duplicate (5% of project) / Field blank (1 during monitoring event) / Rinsate blank (1 during monitoring event) | | | | | | TSS only Full suite | | |
| Comments (include photographs taken, if any): <u>No suspended material, color, odor or sheen</u> | | | | | | | | | | |

- Notes:
- Field measurements will be made in triplicate on 5 percent of measurements to ensure project DQOs are met. These measurements will be recorded on the next page.
 - Description should include suspended or floating material, color, odor, or sheen.



Water Quality Sample Form

| Project Name: <i>TMDL Compliance WQ</i> | | | Project Number: <i>191205-01.01</i> | | | Date: <i>7/7/15</i> | | | Time: <i>1200</i> | | |
|--|------------|---|-------------------------------------|-------------------------------------|---------------------------------------|---------------------------------------|-----------------------------------|--|----------------------------|------------------------------|--|
| Station ID: <i>IA-RW-04</i> | | Latitude/Northing: <i>33.75218</i> | | | Longitude/Easting: <i>118.27107</i> | | | Water Depth (ft): <i>07.7</i> (m): <i>20.6</i> | | | |
| Weather Conditions: <i>overcast</i> | | | | | | | | Field Personnel: <i>CD, AC</i> | | | |
| Wind Speed and Direction (see Beaufort Scale): <i>light breeze</i> | | | | | | | | Recorded By: <i>CD</i> | | | |
| Biological Activity (e.g., presence of fish, birds, macrophytes, phytoplankton): <i>1 sea lion</i> | | | | | | | | | | | |
| Description of In-water activities (e.g., recreational boating, active discharges): <i>1 patrol boat</i> | | | | | | | | | | | |
| In Situ Field Parameters ¹ and Water Sample Collection | | | | | | | | | | | |
| Time | Depth (m) | Surface (S), Mid-depth (M), or Bottom (B) | DO (mg/L) | pH | Salinity (ppt) | Temp (°C) | Chemistry Sample Collected? (Y/N) | Physical Description of Sample ² | Analytes (circle one) | Sample ID | |
| <i>1200</i> | <i>1</i> | <i>S</i> | <i>4.4</i> <i>5.0</i> | <i>8.1</i> <i>8.1</i> | <i>32.2</i> <i>32.2</i> | <i>18.1</i> <i>17.5</i> | <i>Y</i> | <i>see comment</i> | TSS only <u>Full suite</u> | <i>IA-RW-04-G-S-20150707</i> | |
| <i>1210</i> | <i>9.5</i> | <i>M</i> | <i>4.4</i> <i>5.1</i> | <i>8.1</i> <i>8.1</i> | <i>32.2</i> <i>32.2</i> | <i>17.2</i> <i>16.7</i> | <i>Y</i> | <i>↓</i> | TSS only <u>Full suite</u> | <i>IA-RW-04-G-M-20150707</i> | |
| <i>1215</i> | <i>19m</i> | <i>B</i> | <i>4.1</i> <i>4.4</i> | <i>8.1</i> <i>8.1</i> | <i>32.3</i> <i>32.2</i> | <i>16.0</i> <i>16.0</i> | <i>Y</i> | <i>↓</i> | TSS only <u>Full suite</u> | <i>IA-RW-04-G-B-20150707</i> | |
| | | | | | | | | | TSS only <u>Full suite</u> | | |
| | | | | | | | | | TSS only <u>Full suite</u> | | |
| | | | | | | | | | TSS only <u>Full suite</u> | | |
| | | | | | | | | | TSS only <u>Full suite</u> | | |
| QA/QC Samples Collected: <i>Y/N</i> | | Field duplicate (5% of project) / Field blank (1 during monitoring event) / Rinsate blank (1 during monitoring event) | | | | | | | TSS only <u>Full suite</u> | | |
| Comments (include photographs taken, if any): <i>No suspended material, color, odor, or sheen</i> | | | | | | | | | | | |

- Notes:
- Field measurements will be made in triplicate on 5 percent of measurements to ensure project DQOs are met. These measurements will be recorded on the next page.
 - Description should include suspended or floating material, color, odor, or sheen.



Water Quality Sample Form

| Project Name: <u>TMDL Compliance Wa</u> | | | Project Number: <u>141205-01.01</u> | | | Date: <u>7/7/15</u> | | Time: <u>1517</u> | | |
|--|-----------|--|-------------------------------------|-------------------------------------|----------------|-----------------------------|-------------------------------|---|----------------------------|------------------------------|
| Station ID: <u>JA-RW-05</u> | | Latitude/Northing: <u>33.73262</u> | | Longitude/Easting: <u>118.25117</u> | | Water Depth (ft): <u>62</u> | | (m): <u>8.9</u> | | |
| Weather Conditions: <u>Sunny</u> | | | | | | | Field Personnel: <u>AC/CD</u> | | | |
| Wind Speed and Direction (see Beaufort Scale): <u>Slight breeze</u> | | | | | | | Recorded By: <u>CD</u> | | | |
| Biological Activity (e.g., presence of fish, birds, macrophytes, phytoplankton): | | | | | | | | | | |
| Description of In-water activities (e.g., recreational boating, active discharges): <u>4 barges offloading</u> | | | | | | | | | | |
| In Situ Field Parameters ¹ and Water Sample Collection | | | | | | | | | | |
| Time | Depth (m) | Surface (S), Mid-depth (M), or Bottom (B) | DO (mg/L) | pH | Salinity (ppt) | Temp (°C) | Sample Collected? (Y/N) | Physical Description of Sample ² | Analytes (circle one) | Sample ID |
| <u>1517</u> | <u>1</u> | <u>S</u> | <u>3.3</u> | <u>8.2</u> | <u>32.3</u> | <u>18.5</u> | <u>Y</u> | <u>see comment</u> | TSS only <u>Full suite</u> | <u>JA-RW-05-G-S-20150707</u> |
| <u>1525</u> | <u>9</u> | <u>M</u> | <u>3.4</u> | <u>8.2</u> | <u>32.1</u> | <u>15.9</u> | <u>Y</u> | ↓ | <u>TSS only</u> Full suite | <u>JA-RW-05-G-M-20150707</u> |
| <u>1530</u> | <u>17</u> | <u>B</u> | <u>3.2</u> | <u>8.0</u> | <u>32.2</u> | <u>14.8</u> | <u>Y</u> | ↓ | <u>TSS only</u> Full suite | <u>JA-RW-05-G-B-20150707</u> |
| | | | | | | | | | TSS only Full suite | |
| | | | | | | | | | TSS only Full suite | |
| | | | | | | | | | TSS only Full suite | |
| | | | | | | | | | TSS only Full suite | |
| QA/QC Samples Collected: <u>Y/N</u> | | Field duplicate (5% of project) / Field blank (1 during monitoring event) / Rinsate blank (1 during monitoring event) <u>Triplicate measurements</u> | | | | | | TSS only Full suite | | |
| Comments (include photographs taken, if any): <u>No floating material, odor, odor or sheen</u> | | | | | | | | | | |

- Notes:
- Field measurements will be made in triplicate on 5 percent of measurements to ensure project DQOs are met. These measurements will be recorded on the next page.
 - Description should include suspended or floating material, color, odor, or sheen.



Water Quality Sample Form

| Project Name: <u>TMDL Compliance WQ</u> | | | Project Number: <u>141205-01.01</u> | | | Date: <u>7/7/15</u> | | Time: <u>1415</u> | | |
|--|-----------|--|-------------------------------------|-------------------------------------|----------------|--|-------------------------|---|----------------------------|-----------------------|
| Station ID: <u>IA-RW-06</u> | | Latitude/Northing: <u>33.72571</u> | | Longitude/Easting: <u>118.27174</u> | | Water Depth (ft): <u>64.1</u> (m): <u>19.9</u> | | | | |
| Weather Conditions: <u>Sunny</u> | | | | | | Field Personnel: <u>CO / AC</u> | | | | |
| Wind Speed and Direction (see Beaufort Scale): <u>light breeze</u> | | | | | | Recorded By: <u>CO</u> | | | | |
| Biological Activity (e.g., presence of fish, birds, macrophytes, phytoplankton): <u>3-4 gulls</u> | | | | | | | | | | |
| Description of In-water activities (e.g., recreational boating, active discharges): <u>recreational boat, 1 vessel assist boat</u> | | | | | | | | | | |
| In Situ Field Parameters ¹ and Water Sample Collection | | | | | | | | | | |
| Time | Depth (m) | Surface (S), Mid-depth (M), or Bottom (B) | DO (mg/L) | pH | Salinity (ppt) | Temp (°C) | Sample Collected? (Y/N) | Physical Description of Sample ² | Analytes (circle one) | Sample ID |
| 1415 | 1 | S | 4.5 | 8.2 | 32.3 | 17.2 | Y | see comment | TSS only <u>Full suite</u> | IA-RW-06-G-S-20150707 |
| 1420 | 9 | M | 4.0 | 8.2 | 32.3 | 16.2 | Y | ↓ | <u>TSS only</u> Full suite | IA-RW-06-G-M-20150707 |
| 1425 | 18 | B | 4.0 | 8.1 | 32.1 | 15.0 | Y | | <u>TSS only</u> Full suite | IA-RW-06-G-B-20150707 |
| 1430 | | M | | | | | | | <u>TSS only</u> Full suite | IA-RW-06-G-M-20150707 |
| | | | | | | | | | TSS only Full suite | |
| | | | | | | | | | TSS only Full suite | |
| | | | | | | | | | TSS only Full suite | |
| QA/QC Samples Collected: <u>Y</u> / N | | Field duplicate (5% of project) / Field blank (1 during monitoring event) / Rinsate blank (1 during monitoring event) <u>Lab dup</u> | | | | | | TSS only Full suite | | |
| Comments (include photographs taken, if any): <u>No suspended material, color, odor or sheen</u> | | | | | | | | | | |

- Notes:
- Field measurements will be made in triplicate on 5 percent of measurements to ensure project DQOs are met. These measurements will be recorded on the next page.
 - Description should include suspended or floating material, color, odor, or sheen.



Water Quality Sample Form

| Project Name: <u>TMDL Compliance WQ</u> | | | Project Number: <u>141205-01.01</u> | | | Date: <u>7/7/2015</u> | | Time: <u>1450</u> | | |
|---|-----------|---|-------------------------------------|-------------------------------------|----------------|---|-------------------------|---|----------------------------|------------------------------|
| Station ID: <u>FH-RW-07</u> | | Latitude/Northing: <u>33.73592</u> | | Longitude/Easting: <u>118.26725</u> | | Water Depth (ft): <u>26</u> (m): <u>7.9</u> | | | | |
| Weather Conditions: <u>sunny</u> | | | | | | Field Personnel: <u>CD/AC</u> | | | | |
| Wind Speed and Direction (see Beaufort Scale): <u>moderate breeze</u> | | | | | | Recorded By: <u>CD</u> | | | | |
| Biological Activity (e.g., presence of fish, birds, macrophytes, phytoplankton): <u>n/a</u> | | | | | | | | | | |
| Description of In-water activities (e.g., recreational boating, active discharges): <u>1 fishing vessel</u> | | | | | | | | | | |
| In Situ Field Parameters ¹ and Water Sample Collection | | | | | | | | | | |
| Time | Depth (m) | Surface (S), Mid-depth (M), or Bottom (B) | DO (mg/L) | pH | Salinity (ppt) | Temp (°C) | Sample Collected? (Y/N) | Physical Description of Sample ² | Analytes (circle one) | Sample ID |
| 1450 | 1 | S | 3.9 | 8.1 | 32.3 | 18.7 | Y | <u>see comment</u> | TSS only <u>Full suite</u> | <u>FH-RW-07-G-S-20150707</u> |
| 1458 | 25 | M | 3.5 | 8.1 | 32.3 | 17.9 | Y | ↓ | <u>TSS only</u> Full suite | <u>FH-RW-07-G-M-20150707</u> |
| 1505 | 7 | B | 3.2 | 8.1 | 32.3 | 16.4 | Y | ↓ | <u>TSS only</u> Full suite | <u>FH-RW-07-G-B-20150707</u> |
| | | | | | | | | | TSS only Full suite | |
| | | | | | | | | | TSS only Full suite | |
| | | | | | | | | | TSS only Full suite | |
| | | | | | | | | | TSS only Full suite | |
| QA/QC Samples Collected: Y / <u>N</u> | | Field duplicate (5% of project) / Field blank (1 during monitoring event) / Rinsate blank (1 during monitoring event) | | | | | | TSS only Full suite | | |
| Comments (include photographs taken, if any): <u>No floating material, color, odor or sheen</u> | | | | | | | | | | |

- Notes:
- Field measurements will be made in triplicate on 5 percent of measurements to ensure project DQOs are met. These measurements will be recorded on the next page.
 - Description should include suspended or floating material, color, odor, or sheen.



Water Quality Sample Form

| Project Name: <i>GWMA TMDL compliance</i> | | | Project Number: <i>141250-0102</i> | | | Date: <i>7-7-2015</i> | | Time: <i>1420</i> | | | |
|--|--------------|---|------------------------------------|-------------------------------------|----------------|--|--|---|--|------------------------------|--|
| Station ID: <i>OA-RW-08-G</i> | | Latitude/Northing: <i>33.71490</i> | | Longitude/Easting: <i>113.24294</i> | | Water Depth (ft): <i>12.5</i> (m): <i>25.5</i> | | | | | |
| Weather Conditions: <i> Sunny</i> | | | | | | | Field Personnel: <i>B. Ahr, M. Anghera</i> | | | | |
| Wind Speed and Direction (see Beaufort Scale): <i> high breeze</i> | | | | | | | Recorded By: <i>B. Ahr</i> | | | | |
| Biological Activity (e.g., presence of fish, birds, macrophytes, phytoplankton): <i> n/a</i> | | | | | | | | | | | |
| Description of In-water activities (e.g., recreational boating, active discharges): <i> n/a</i> | | | | | | | | | | | |
| In Situ Field Parameters ¹ and Water Sample Collection | | | | | | | | | | | |
| Time | Depth (m) | Surface (S), Mid-depth (M), or Bottom (B) | DO (mg/L) | pH | Salinity (ppt) | Temp (°C) | Sample Collected? (Y/N) | Physical Description of Sample ² | Analytes (circle one) | Sample ID | |
| <i>1420</i> | <i>1</i> | <i>S</i> | <i>8.59</i> | <i>8.17</i> | <i>31.7</i> | <i>17.19</i> | <i>Y</i> | <i>see</i> | <i>TSS only</i> <u><i>Full suite</i></u> | <i>OA-RW-08-G-S-20150707</i> | |
| <i>1420</i> | <i>12.75</i> | <i>M</i> | <i>8.24</i> | <i>8.05</i> | <i>30.3</i> | <i>15.46</i> | <i>Y</i> | <i>comment</i> | <u><i>TSS only</i></u> <i>Full suite</i> | <i>OA-RW-08-M-20150707</i> | |
| <i>1420</i> | <i>24.5</i> | <i>B</i> | <i>8.43</i> | <i>7.94</i> | <i>31.8</i> | <i>13.07</i> | <i>Y</i> | <i>↓</i> | <u><i>TSS only</i></u> <i>Full suite</i> | <i>OA-RW-08-B-20150707</i> | |
| | | | | | | | | | <i>TSS only</i> <i>Full suite</i> | | |
| | | | | | | | | | <i>TSS only</i> <i>Full suite</i> | | |
| | | | | | | | | | <i>TSS only</i> <i>Full suite</i> | | |
| | | | | | | | | | <i>TSS only</i> <i>Full suite</i> | | |
| QA/QC Samples Collected: <u><i>Y</i></u> <i>(N)</i> | | Field duplicate (5% of project) / Field blank (1 during monitoring event) / Rinsate blank (1 during monitoring event) | | | | | | | <i>TSS only</i> <i>Full suite</i> | | |
| Comments (include photographs taken, if any): <i> No suspended material, color, odor or sheen</i> <i> 1 photo</i> | | | | | | | | | | | |

- Notes:
- Field measurements will be made in triplicate on 5 percent of measurements to ensure project DQOs are met. These measurements will be recorded on the next page.
 - Description should include suspended or floating material, color, odor, or sheen.

Water Quality Sample Form

| Project Name: <i>GWMA</i> | | | Project Number: <i>141205-01.02</i> | | | Date: <i>7-7-2015</i> | | Time: <i>1214</i> | | | |
|--|-------------|---|-------------------------------------|-------------------------------------|---|------------------------------------|-----------------------------------|---|----------------------------|------------------------------|--|
| Station ID: <i>0A-RW-09-G</i> | | Latitude/Northing: <i>33.71318</i> | | Longitude/Easting: <i>118.26647</i> | | Water Depth (ft): (m): <i>15.5</i> | | | | | |
| Weather Conditions: <i>Partly cloudy</i> | | | | | | | Field Personnel: <i>BA, MA</i> | | | | |
| Wind Speed and Direction (see Beaufort Scale): <i>light breeze</i> | | | | | | | Recorded By: <i>B. Ahr</i> | | | | |
| Biological Activity (e.g., presence of fish, birds, macrophytes, phytoplankton): <i>n/a</i> | | | | | | | | | | | |
| Description of In-water activities (e.g., recreational boating, active discharges): <i>n/a</i> | | | | | | | | | | | |
| In Situ Field Parameters ¹ and Water Sample Collection | | | | | | | | | | | |
| Time | Depth (m) | Surface (S), Mid-depth (M), or Bottom (B) | DO (mg/L) | pH | Salinity (ppt) | Temp (°C) | Chemistry Sample Collected? (Y/N) | Physical Description of Sample ² | Analytes (circle one) | Sample ID | |
| <i>1214</i> | <i>1</i> | <i>S</i> | <i>8.48</i> | <i>8.10</i> | <i>35.5</i> <i>44.80</i> | <i>16.32</i> | <i>Y</i> | <i>see comment</i> | TSS only <u>Full suite</u> | <i>0A-RW-09-G-S-20150707</i> | |
| <i>1216</i> | <i>7.2</i> | <i>M</i> | <i>8.14</i> | <i>8.09</i> | <i>36.5</i> <i>44.83</i> | <i>15.25</i> | <i>Y</i> | <i>↓</i> | <u>TSS only</u> Full suite | <i>0A-RW-09-G-M-20150707</i> | |
| <i>1218</i> | <i>14.5</i> | <i>B</i> | <i>7.76</i> | <i>8.06</i> | <i>37.1</i> <i>44.85</i> | <i>14.61</i> | <i>Y</i> | <i>↓</i> | <u>TSS only</u> Full suite | <i>0A-RW-09-G-B-20150707</i> | |
| | | | | | | | | | TSS only Full suite | | |
| | | | | | | | | | TSS only Full suite | | |
| | | | | | | | | | TSS only Full suite | | |
| | | | | | | | | | TSS only Full suite | | |
| QA/QC Samples Collected: <u>Y</u> / N | | Field duplicate (5% of project) / Field blank (1 during monitoring event) / Rinsate blank (1 during monitoring event) | | | | | | | TSS only Full suite | | |
| Comments (include photographs taken, if any): <i>photo</i> <i>No floating material, color, odor, or sheen</i> | | | | | | | | | | | |

- Notes:
- Field measurements will be made in triplicate on 5 percent of measurements to ensure project DQOs are met. These measurements will be recorded on the next page.
 - Description should include suspended or floating material, color, odor, or sheen.

Water Quality Sample Form

| Project Name: <i>SWMA compliance</i> | | | Project Number: <i>141205-01.02</i> | | | Date: <i>7-7-2015</i> | | Time: <i>1340</i> | | | |
|--|------------|---|-------------------------------------|-------------------------------------|--|--|-------------------------|---|-----------------------|-------------------|------------------------------|
| Station ID: <i>CM-RW-10-G</i> | | Latitude/Northing: <i>33.71928</i> | | Longitude/Easting: <i>118.27930</i> | | Water Depth (ft): | | (m): <i>10.8</i> | | | |
| Weather Conditions: <i>Sunny</i> | | | | | | Field Personnel: <i>B. Ahv, M. Anghere</i> | | | | | |
| Wind Speed and Direction (see Beaufort Scale): <i>light breeze</i> | | | | | | Recorded By: <i>B. Ahv</i> | | | | | |
| Biological Activity (e.g., presence of fish, birds, macrophytes, phytoplankton): <i>1 seagull</i> | | | | | | | | | | | |
| Description of In-water activities (e.g., recreational boating, active discharges): <i>1 recreational vessel</i> | | | | | | | | | | | |
| In Situ Field Parameters ¹ and Water Sample Collection | | | | | | | | | | | |
| Time | Depth (m) | Surface (S), Mid-depth (M), or Bottom (B) | DO (mg/L) | pH | Salinity (ppt) | Temp (°C) | Sample Collected? (Y/N) | Physical Description of Sample ² | Analytes (circle one) | | Sample ID |
| <i>1340</i> | <i>1</i> | <i>S</i> | <i>10.98</i> | <i>8.13</i> | <i>34.2</i> <i>44.81</i> | <i>17.86</i> | <i>Y</i> | <i>see comment</i> | TSS only | <u>Full suite</u> | <i>CM-RW-10-G-S-20150707</i> |
| <i>1343</i> | <i>5.4</i> | <i>M</i> | <i>8.10</i> | <i>8.05</i> | <i>36.2</i> <i>44.82</i> | <i>15.60</i> | <i>BA N Y</i> | <i>↓</i> | <u>TSS only</u> | Full suite | <i>CM-RW-10-G+M-20150707</i> |
| <i>1344</i> | <i>9.8</i> | <i>B</i> | <i>7.62</i> | <i>8.04</i> | <i>32.7</i> <i>44.83</i> | <i>15.14</i> | <i>BA N Y</i> | <i>↓</i> | <u>TSS only</u> | Full suite | <i>CM-RW-10-G-B-20150707</i> |
| | | | | | | | | | TSS only | Full suite | |
| | | | | | | | | | TSS only | Full suite | |
| | | | | | | | | | TSS only | Full suite | |
| | | | | | | | | | TSS only | Full suite | |
| QA/QC Samples Collected: <i>Y</i> / <u><i>N</i></u> | | Field duplicate (5% of project) / Field blank (1 during monitoring event) / Rinsate blank (1 during monitoring event) | | | | | | TSS only | | Full suite | |
| Comments (include photographs taken, if any): <i>photo</i> <i>no floating material, color, odor or sheen</i> | | | | | | | | | | | |

- Notes:
- Field measurements will be made in triplicate on 5 percent of measurements to ensure project DQOs are met. These measurements will be recorded on the next page.
 - Description should include suspended or floating material, color, odor, or sheen.

Water Quality Sample Form

| Project Name: <i>GWMA compliance TMDL</i> | | | Project Number: <i>141205-01.07</i> | | | Date: <i>7-7-2015</i> | | | Time: <i>1252</i> | | | |
|---|------------|---|-------------------------------------|-------------|---|-----------------------|-------------------------|--|-----------------------|-------------------|------------------------------|--|
| Station ID: <i>CB-RW-11-G</i> | | Latitude/Northing: <i>33.71229</i> | | | Longitude/Easting: <i>118.27779</i> | | | Water Depth (ft): (m): <i>6.4</i> | | | | |
| Weather Conditions: <i>Partly cloudy, light breeze</i> | | | | | | | | Field Personnel: <i>B. Ahr, M. Angherera</i> | | | | |
| Wind Speed and Direction (see-Beaufort Scale): <i>light breeze</i> | | | | | | | | Recorded By: <i>B. Ahr</i> | | | | |
| Biological Activity (e.g., presence of fish, birds, macrophytes, phytoplankton): <i>n/a</i> | | | | | | | | | | | | |
| Description of In-water activities (e.g., recreational boating, active discharges): <i>n/a</i> | | | | | | | | | | | | |
| In Situ Field Parameters ¹ and Water Sample Collection | | | | | | | | | | | | |
| Time | Depth (m) | Surface (S), Mid-depth (M), or Bottom (B) | DO (mg/L) | pH | Salinity (ppt) | Temp (°C) | Sample Collected? (Y/N) | Physical Description of Sample ² | Analytes (circle one) | | Sample ID | |
| <i>1252</i> | <i>1</i> | <i>S</i> | <i>8.46</i> | <i>8.09</i> | <i>34.8</i> <i>44.79</i> | <i>17.14</i> | <i>Y</i> | <i>see comment</i> | <i>TSS only</i> | <i>Full suite</i> | <i>CB-RW-11-G-S-20150707</i> | |
| <i>1253</i> | <i>2.7</i> | <i>M</i> | <i>8.68</i> | <i>8.11</i> | <i>35.6</i> <i>44.81</i> | <i>16.26</i> | <i>Y</i> | <i>↓</i> | <i>TSS only</i> | <i>Full suite</i> | <i>CB-RW-11-G-M-20150707</i> | |
| <i>1253</i> | <i>5.4</i> | <i>B</i> | <i>7.91</i> | <i>8.09</i> | <i>36.1</i> <i>44.82</i> | <i>15.67</i> | <i>Y</i> | <i>↓</i> | <i>TSS only</i> | <i>Full suite</i> | <i>CB-RW-11-G-B-20150707</i> | |
| | | | | | | | | | <i>TSS only</i> | <i>Full suite</i> | | |
| | | | | | | | | | <i>TSS only</i> | <i>Full suite</i> | | |
| | | | | | | | | | <i>TSS only</i> | <i>Full suite</i> | | |
| | | | | | | | | | <i>TSS only</i> | <i>Full suite</i> | | |
| QA/QC Samples Collected: <i>Y</i> / <i>N</i> | | Field duplicate (5% of project) / Field blank (1 during monitoring event) / Rinsate blank (1 during monitoring event) | | | | | | | <i>TSS only</i> | | <i>Full suite</i> | |
| Comments (include photographs taken, if any): <i>No floating material, color, odor, or sheen</i> | | | | | | | | | | | | |

- Notes:
- Field measurements will be made in triplicate on 5 percent of measurements to ensure project DQOs are met. These measurements will be recorded on the next page.
 - Description should include suspended or floating material, color, odor, or sheen.



Water Quality Sample Form

| Project Name: <i>GWMA TMDL compliance</i> | | | Project Number: <i>11205-01.02</i> | | | Date: <i>7-7-2015</i> | | Time: <i>0930</i> | | | |
|--|-----------|---|------------------------------------|-------------------------------------|--|----------------------------------|--|---|----------------------------|------------------------------|--|
| Station ID: <i>1B-RW-12-G-8</i> | | Latitude/Northing: <i>33,76909</i> | | Longitude/Easting: <i>118,22678</i> | | Water Depth (ft): (m): <i>18</i> | | | | | |
| Weather Conditions: <i>Overcast</i> | | | | | | | Field Personnel: <i>B. Ahr, M. Anghera</i> | | | | |
| Wind Speed and Direction (see Beaufort Scale): <i>No wind</i> | | | | | | | Recorded By: <i>B. Ahr</i> | | | | |
| Biological Activity (e.g., presence of fish, birds, macrophytes, phytoplankton): <i>n/a</i> | | | | | | | | | | | |
| Description of In-water activities (e.g., recreational boating, active discharges): <i>1 barge offloading</i> | | | | | | | | | | | |
| In Situ Field Parameters ¹ and Water Sample Collection | | | | | | | | | | | |
| Time | Depth (m) | Surface (S), Mid-depth (M), or Bottom (B) | DO (mg/L) | pH | Salinity (ppt) | Temp (°C) | Chemistry Sample Collected? (Y/N) | Physical Description of Sample ² | Analytes (circle one) | Sample ID | |
| <i>0930</i> | <i>1</i> | <i>S</i> | <i>7.94</i> | <i>7.98</i> | <i>34.5</i> <i>44.79</i> | <i>17.49</i> | <i>Y</i> | <i>see comment</i> | TSS only <u>Full suite</u> | <i>1B-RW-12-G-S-20150707</i> | |
| <i>0930</i> | <i>9</i> | <i>M</i> | <i>7.94</i> | <i>8.04</i> | <i>35.9</i> <i>44.77</i> | <i>16.83</i> | <i>BA</i> <i>Y</i> | <i>↓</i> | <u>TSS only</u> Full suite | <i>1B-RW-12-G-M-20150707</i> | |
| <i>0930</i> | <i>17</i> | <i>B</i> | <i>7.63</i> | <i>8.04</i> | <i>35.9</i> <i>44.82</i> | <i>15.86</i> | <i>BA</i> <i>Y</i> | <i>↓</i> | <u>TSS only</u> Full suite | <i>1B-RW-12-G-B-20150707</i> | |
| | | | | | | | | | TSS only Full suite | | |
| | | | | | | | | | TSS only Full suite | | |
| | | | | | | | | | TSS only Full suite | | |
| | | | | | | | | | TSS only Full suite | | |
| QA/QC Samples Collected: <u>Y</u> N | | Field duplicate (5% of project) / Field blank (1 during monitoring event) / Rinsate blank (1 during monitoring event) | | | | | | | TSS only Full suite | | |
| Comments (include photographs taken, if any): <i>1 photo Chemistry lab duplicate. No floating material, color, odor, or sheen</i> | | | | | | | | | | | |

- Notes:
- Field measurements will be made in triplicate on 5 percent of measurements to ensure project DQOs are met. These measurements will be recorded on the next page.
 - Description should include suspended or floating material, color, odor, or sheen.



Water Quality Sample Form

| Project Name: <u>GWMA TMDL Compliance</u> | | | Project Number: <u>14205-01.02</u> | | | Date: <u>7-7-2015</u> | | Time: <u>1035</u> | | |
|---|-----------|---|------------------------------------|-------------------------------------|---------------------------------|----------------------------------|--|---|----------------------------|-----------------------------|
| Station ID: <u>B-RW-13-G</u> | | Latitude/Northing: <u>33.75345</u> | | Longitude/Easting: <u>118.21632</u> | | Water Depth (ft): (m): <u>24</u> | | | | |
| Weather Conditions: <u>Sunny</u> | | | | | | | Field Personnel: <u>B. Ahr, M. Anghera</u> | | | |
| Wind Speed and Direction (see Beaufort Scale): <u>n/a</u> | | | | | | | Recorded By: <u>B. Ahr</u> | | | |
| Biological Activity (e.g., presence of fish, birds, macrophytes, phytoplankton): <u>n/a</u> | | | | | | | | | | |
| Description of In-water activities (e.g., recreational boating, active discharges): <u>n/a</u> | | | | | | | | | | |
| In Situ Field Parameters ¹ and Water Sample Collection | | | | | | | | | | |
| Time | Depth (m) | Surface (S), Mid-depth (M), or Bottom (B) | DO (mg/L) | pH | Salinity (ppt) | Temp (°C) | Chemistry Sample Collected? (Y/N) | Physical Description of Sample ² | Analytes (circle one) | Sample ID |
| <u>1035</u> | <u>1</u> | <u>S</u> | <u>7.19</u> | <u>8.05</u> | <u>34.5</u> 44.79 | <u>17.42</u> | <u>Y</u> | <u>see comment</u> | TSS only <u>Full suite</u> | <u>B-RW-13-G-S-20150707</u> |
| <u>1035</u> | <u>12</u> | <u>M</u> | <u>7.81</u> | <u>8.07</u> | <u>36.1</u> 44.81 | <u>15.71</u> | <u>Y</u> | <u>↓</u> | <u>TSS only</u> Full suite | <u>B-RW-13-G-M-20150707</u> |
| <u>1035</u> | <u>23</u> | <u>B</u> | <u>7.71</u> | <u>8.06</u> | <u>37.2</u> 44.85 | <u>14.55</u> | <u>Y</u> | <u>↓</u> | <u>TSS only</u> Full suite | <u>B-RW-13-G-M-20150707</u> |
| | | | | | | | | | TSS only Full suite | |
| | | | | | | | | | TSS only Full suite | |
| | | | | | | | | | TSS only Full suite | |
| | | | | | | | | | TSS only Full suite | |
| QA/QC Samples Collected (Y/N) | | Field duplicate (5% of project) / Field blank (1 during monitoring event) / Rinsate blank (1 during monitoring event) | | | | | | TSS only Full suite | | |
| <u>Y</u> | | <u>1 TSS dup</u> | | | | | | | | |
| Comments (include photographs taken, if any): <u>1 photo</u> <u>Bottom taken @ 23 m</u> <u>No floating material, color, odor, or sheen</u> | | | | | | | | | | |

- Notes:
- Field measurements will be made in triplicate on 5 percent of measurements to ensure project DQOs are met. These measurements will be recorded on the next page.
 - Description should include suspended or floating material, color, odor, or sheen.



Water Quality Sample Form

| | | | | | | | |
|--|--|-------------------------------------|--|-------------------------------------|--|--|--|
| Project Name: <i>GWMA TMDL Compliance</i> | | Project Number: <i>141205-01.02</i> | | Date: <i>7-7-15</i> | | Time: <i>1116</i> | |
| Station ID: <i>1B-RW-14-G</i> | | Latitude/Northing: <i>33.74899</i> | | Longitude/Easting: <i>118.23231</i> | | Water Depth (ft): (m): <i>15.3</i> | |
| Weather Conditions: <i>Partly cloudy</i> | | | | | | Field Personnel: <i>B. Ahr, M. Anghera</i> | |
| Wind Speed and Direction (see Beaufort Scale): <i>n/a</i> | | | | | | Recorded By: <i>B. Ahr</i> | |
| Biological Activity (e.g., presence of fish, birds, macrophytes, phytoplankton): <i>n/a</i> | | | | | | | |
| Description of In-water activities (e.g., recreational boating, active discharges): <i>n/a</i> | | | | | | | |

In Situ Field Parameters¹ and Water Sample Collection

| Time | Depth (m) | Surface (S), Mid-depth (M), or Bottom (B) | DO (mg/L) | pH | Salinity (ppt) | Temp (°C) | Chemistry Sample Collected? (Y/N) | Physical Description of Sample ² | Analytes (circle one) | Sample ID | |
|-------------------------------------|-------------|---|-------------|-------------|--|--------------|-----------------------------------|---|----------------------------|------------------------------|--|
| <i>1116</i> | <i>1</i> | <i>S</i> | <i>8.7</i> | <i>8.1</i> | <i>34.1</i> | <i>17.9</i> | <i>Y</i> | <i>see comment</i> | TSS only <u>Full suite</u> | <i>1B-RW-14-G-S-20150707</i> | |
| <i>1121</i> | <i>7.6</i> | <i>M</i> | <i>8.7</i> | <i>8.13</i> | <i>44.8</i> <i>33.0</i> | <i>15.99</i> | <i>BA Y</i> | <i>↓</i> | <u>TSS only</u> Full suite | <i>1B-RW-14-G-M-20150707</i> | |
| <i>1121</i> | <i>14.3</i> | <i>B</i> | <i>8.56</i> | <i>8.08</i> | <i>44.81</i> <i>36.4</i> | <i>15.40</i> | <i>BA Y</i> | <i>↓</i> | <u>TSS only</u> Full suite | <i>1B-RW-14-G-B-20150707</i> | |
| | | | | | | | | | TSS only Full suite | | |
| | | | | | | | | | TSS only Full suite | | |
| | | | | | | | | | TSS only Full suite | | |
| | | | | | | | | | TSS only Full suite | | |
| QA/QC Samples Collected: Y <u>N</u> | | Field duplicate (5% of project) / Field blank (1 during monitoring event) / Rinsate blank (1 during monitoring event) | | | | | | | TSS only Full suite | | |

Comments (include photographs taken, if any):

Triplicate measurement at surface. No floating material, color, odor, or sheen

Notes:

- Field measurements will be made in triplicate on 5 percent of measurements to ensure project DQOs are met. These measurements will be recorded on the next page.
- Description should include suspended or floating material, color, odor, or sheen.



Water Quality Sample Form

| Project Name: <i>GWMA TMDL Compliance</i> | | | Project Number: <i>141250-01.02</i> | | | Date: <i>7-7-2015</i> | | Time: <i>1515</i> | | |
|---|-------------|---|-------------------------------------|-------------|-------------------------------------|-----------------------|-------------------------|---|----------------------------|---------------------|
| Station ID: <i>1B-RW-15-G</i> | | Latitude/Northing: <i>33.74163</i> | | | Longitude/Easting: <i>118,20335</i> | | | Water Depth (ft): (m): <i>21.8</i> | | |
| Weather Conditions: <i>Sunny, Windy</i> | | | | | | | | Field Personnel: <i>B. Ahr, M. Anghera</i> | | |
| Wind Speed and Direction (see Beaufort Scale): <i>Moderate breeze</i> | | | | | | | | Recorded By: <i>Bonnie Ahr</i> | | |
| Biological Activity (e.g., presence of fish, birds, macrophytes, phytoplankton): <i>n/a</i> | | | | | | | | | | |
| Description of In-water activities (e.g., recreational boating, active discharges): <i>n/a</i> | | | | | | | | | | |
| In Situ Field Parameters ¹ and Water Sample Collection | | | | | | | | | | |
| Time | Depth (m) | Surface (S), Mid-depth (M), or Bottom (B) | DO (mg/L) | pH | Salinity (ppt) | Temp (°C) | Sample Collected? (Y/N) | Physical Description of Sample ² | Analytes (circle one) | Sample ID |
| <i>1515</i> | <i>1</i> | <i>S</i> | <i>8.63</i> | <i>8.06</i> | <i>34.3</i> | <i>17.68</i> | <i>Y</i> | <i>see comment</i> | TSS only <u>Full suite</u> | <i>1B-RW-15-G-S</i> |
| <i>1515</i> | <i>10.9</i> | <i>M</i> | <i>8.63</i> | <i>8.05</i> | <i>34.3</i> | <i>17.68</i> | <i>Y</i> | ↓ | <u>TSS only</u> Full suite | <i>1B-RW-15-G-M</i> |
| <i>1515</i> | <i>20.8</i> | <i>B</i> | <i>8.63</i> | <i>8.04</i> | <i>34.3</i> | <i>17.68</i> | <i>Y</i> | ↓ | <u>TSS only</u> Full suite | <i>1B-RW-15-G-B</i> |
| | | | | | | | | | TSS only Full suite | |
| | | | | | | | | | TSS only Full suite | |
| | | | | | | | | | TSS only Full suite | |
| | | | | | | | | | TSS only Full suite | |
| QA/QC Samples Collected: <i>Y</i> / <u><i>N</i></u> | | Field duplicate (5% of project) / Field blank (1 during monitoring event) / Rinsate blank (1 during monitoring event) | | | | | | | TSS only Full suite | |
| Comments (include photographs taken, if any): <i>Plume in entrance</i> <i>NO floating material, color, odor, or sheen</i> | | | | | | | | | | |

- Notes:
- Field measurements will be made in triplicate on 5 percent of measurements to ensure project DQOs are met. These measurements will be recorded on the next page.
 - Description should include suspended or floating material, color, odor, or sheen.



Water Quality Sample Form

| Project Name: <i>GWMA TMDL Compliance</i> | | | Project Number: <i>141250-01.02</i> | | | Date: <i>7-7-2015</i> | | Time: <i>1446</i> | | | |
|---|-------------|---|-------------------------------------|-------------------------------------|----------------|------------------------------------|--|---|----------------------------|------------------------------|--|
| Station ID: <i>OB-RW-16-G</i> | | Latitude/Northing: <i>33,72949</i> | | Longitude/Easting: <i>118,22827</i> | | Water Depth (ft): (m): <i>18.2</i> | | | | | |
| Weather Conditions: <i>Sunny, light wind</i> | | | | | | | Field Personnel: <i>B. Ahr, M. Anghera</i> | | | | |
| Wind Speed and Direction (see Beaufort Scale): | | | | | | | Recorded By: <i>Bonnie Ahr</i> | | | | |
| Biological Activity (e.g., presence of fish, birds, macrophytes, phytoplankton): | | | | | | | | | | | |
| Description of In-water activities (e.g., recreational boating, active discharges): | | | | | | | | | | | |
| In Situ Field Parameters ¹ and Water Sample Collection | | | | | | | | | | | |
| Time | Depth (m) | Surface (S), Mid-depth (M), or Bottom (B) | DO (mg/L) | pH | Salinity (ppt) | Temp (°C) | Sample Collected? (Y/N) | Physical Description of Sample ² | Analytes (circle one) | Sample ID | |
| <i>1446</i> | <i>1</i> | <i>S</i> | <i>8.92</i> | <i>8.07</i> | <i>34.3</i> | <i>17.75</i> | <i>Y</i> | <i>see comment</i> | TSS only <u>Full suite</u> | <i>OB-RW-16-G-S-20150707</i> | |
| <i>1446</i> | <i>9.1</i> | <i>M</i> | <i>8.24</i> | <i>7.99</i> | <i>36.0</i> | <i>15.81</i> | <i>Y</i> | <i>↓</i> | <u>TSS only</u> Full suite | <i>OB-RW-16-G-M-20150707</i> | |
| <i>1446</i> | <i>17.2</i> | <i>B</i> | <i>7.24</i> | <i>7.85</i> | <i>36.9</i> | <i>14.84</i> | <i>Y</i> | <i>↓</i> | <u>TSS only</u> Full suite | <i>OB-RW-16-G-B-20150707</i> | |
| | | | | | | | | | TSS only Full suite | | |
| | | | | | | | | | TSS only Full suite | | |
| | | | | | | | | | TSS only Full suite | | |
| | | | | | | | | | TSS only Full suite | | |
| QA/QC Samples Collected: <u>Y</u> / N | | Field duplicate (5% of project) / Field blank (1 during monitoring event) / Rinsate blank (1 during monitoring event) | | | | | | | TSS only Full suite | | |
| Comments (include photographs taken, if any): <i>No floating material, color, odor or sheen. Bottom sample taken @ 15.8m as boat moved. Mid column TSS field duplicate collected.</i> | | | | | | | | | | | |

- Notes:
- Field measurements will be made in triplicate on 5 percent of measurements to ensure project DQOs are met. These measurements will be recorded on the next page.
 - Description should include suspended or floating material, color, odor, or sheen.

Water Quality Sample Form

| Project Name: <u>JMPL Compliance</u> | | | Project Number: <u>14205-01</u> | | | Date: <u>7/7/15</u> | | Time: <u>10:20</u> | | | |
|--|-----------|---|---------------------------------|------|---------------------------------------|---------------------|-----------------------------------|--|---|-------------------|-----------------------|
| Station ID: <u>17</u> | | Latitude/Northing: <u>33.72759372</u> | | | Longitude/Easting: <u>118.1860575</u> | | | Water Depth (ft): <u>76.9</u> (m): <u>23.4</u> | | | |
| Weather Conditions: <u>Overcast</u> | | | | | | | Field Personnel: <u>NO/RW/TG</u> | | | | |
| Wind Speed and Direction (see Beaufort Scale): <u>< 5 mph</u> | | | | | | | Recorded By: <u>ND</u> | | | | |
| Biological Activity (e.g., presence of fish, birds, macrophytes, phytoplankton): <u>na</u> | | | | | | | | | | | |
| Description of In-water activities (e.g., recreational boating, active discharges): <u>limited recreational vessel</u> | | | | | | | | | | | |
| In Situ Field Parameters ¹ and Water Sample Collection | | | | | | | | | | | |
| Time | Depth (m) | Surface (S), Mid-depth (M), or Bottom (B) | DO (mg/L) | pH | Salinity (ppt) | Temp (°C) | Chemistry Sample Collected? (Y/N) | Physical Description of Sample ² | Analytes (circle one) | | Sample ID |
| 10:20 | 22 | B | 8.06 | 7.81 | 33.06 | 13.83 | N Y | seawater | <u>TSS only</u> | Full suite | OB-RW-17-G-B-20140707 |
| 10:22 | 11 | M | 7.97 | 7.75 | 33.06 | 15.15 | N Y | seawater | <u>TSS only</u> | Full suite | OB-RW-17-G-M-20140707 |
| 10:22 | 0 | S | 8.36 | 7.76 | 33.03 | 17.03 | Y | seawater | TSS only | <u>Full suite</u> | OB-RW-17-G-S-20140707 |
| | | | | | | | | | TSS only | Full suite | |
| | | | | | | | | | TSS only | Full suite | |
| | | | | | | | | | TSS only | Full suite | |
| | | | | | | | | | TSS only | Full suite | |
| QA/QC Samples Collected: Y/ N | | | | | | | | | Field duplicate (5% of project) / Field blank (1 during monitoring event) / Rinsate blank (1 during monitoring event) | | TSS only Full suite |
| Comments (include photographs taken, if any): | | | | | | | | | | | |

- Notes:
- Field measurements will be made in triplicate on 5 percent of measurements to ensure project DQOs are met. These measurements will be recorded on the next page.
 - Description should include suspended or floating material, color, odor, or sheen.

Water Quality Sample Form

| Project Name: <i>TMBL Compliance</i> | | | Project Number: <i>141205-01</i> | | | Date: <i>7/7/15</i> | | Time: <i>09:20</i> | | | |
|--|-----------|---|----------------------------------|-------------|---------------------------------------|---------------------|-----------------------------------|---|----------------------------|------------------------------|--|
| Station ID: <i>18</i> | | Latitude/Northing: <i>33.7538222</i> | | | Longitude/Easting: <i>118.1813321</i> | | | Water Depth (ft): <i>38.4 (m): 11.8</i> | | | |
| Weather Conditions: <i>Overcast</i> | | | | | | | Field Personnel: <i>NO TG RW</i> | | | | |
| Wind Speed and Direction (see Beaufort Scale): <i>LS mph</i> | | | | | | | Recorded By: <i>ND</i> | | | | |
| Biological Activity (e.g., presence of fish, birds, macrophytes, phytoplankton): <i>seagulls</i> | | | | | | | | | | | |
| Description of In-water activities (e.g., recreational boating, active discharges): <i>Recreational + Commercial Traffic</i> | | | | | | | | | | | |
| In Situ Field Parameters ¹ and Water Sample Collection | | | | | | | | | | | |
| Time | Depth (m) | Surface (S), Mid-depth (M), or Bottom (B) | DO (mg/L) | pH | Salinity (ppt) | Temp (°C) | Chemistry Sample Collected? (Y/N) | Physical Description of Sample ² | Analytes (circle one) | Sample ID | |
| <i>9:20</i> | <i>11</i> | <i>B</i> | <i>7.49</i> | <i>7.72</i> | <i>33.02</i> | <i>16.05</i> | <i>Y</i> | <i>seawater</i> | <u>TSS only</u> Full suite | <i>SP-RW-18-G-B-20150707</i> | |
| <i>9:20</i> | <i>5</i> | <i>M</i> | <i>8.47</i> | <i>7.76</i> | <i>32.71</i> | <i>17.93</i> | <i>Y</i> | <i>seawater</i> | <u>TSS only</u> Full suite | <i>SP-RW-18-G-M-20150707</i> | |
| <i>9:20</i> | <i>0</i> | <i>S</i> | <i>7.08</i> | <i>7.74</i> | <i>30.35</i> | <i>18.35</i> | <i>Y</i> | <i>seawater</i> | TSS only <u>Full suite</u> | <i>SP-RW-18-G-S-20150707</i> | |
| | | | | | | | | | TSS only Full suite | | |
| | | | | | | | | | TSS only Full suite | | |
| | | | | | | | | | TSS only Full suite | | |
| | | | | | | | | | TSS only Full suite | | |
| QA/QC Samples Collected: <i>Y M</i> | | Field duplicate (5% of project) / Field blank (1 during monitoring event) / Rinsate blank (1 during monitoring event) | | | | | | | TSS only Full suite | | |
| Comments (include photographs taken, if any): <i>lab duplicate taken at mid depth</i> | | | | | | | | | | | |

- Notes:
1. Field measurements will be made in triplicate on 5 percent of measurements to ensure project DQOs are met. These measurements will be recorded on the next page.
 2. Description should include suspended or floating material, color, odor, or sheen.



Water Quality Sample Form

| Project Name: <i>TMDL Compliance WQ</i> | | | Project Number: <i>141205-G1</i> | | | Date: <i>7-7-2015</i> | | Time: <i>11:50</i> | | | |
|--|------------|---|----------------------------------|---------------------------------------|----------------|-----------------------------------|----------------------------------|---|----------------------------|------------------------------|--|
| Station ID: <i>19</i> | | Latitude/Northing: <i>33.73667149</i> | | Longitude/Easting: <i>118.1313908</i> | | Water Depth (ft): (m): <i>8.9</i> | | | | | |
| Weather Conditions: <i>Sunny, 80% cloud cover</i> | | | | | | | Field Personnel: <i>NO/RW/TG</i> | | | | |
| Wind Speed and Direction (see Beaufort Scale): <i>no wind/current</i> | | | | | | | Recorded By: <i>ND</i> | | | | |
| Biological Activity (e.g., presence of fish, birds, macrophytes, phytoplankton): <i>elegant fern</i> | | | | | | | | | | | |
| Description of In-water activities (e.g., recreational boating, active discharges): <i>recreational vessels</i> | | | | | | | | | | | |
| In Situ Field Parameters ¹ and Water Sample Collection | | | | | | | | | | | |
| Time | Depth (m) | Surface (S), Mid-depth (M), or Bottom (B) | DO (mg/L) | pH | Salinity (ppt) | Temp (°C) | Sample Collected? (Y/N) | Physical Description of Sample ² | Analytes (circle one) | Sample ID | |
| <i>11:50</i> | <i>2.9</i> | <i>B</i> | <i>8.35</i> | <i>7.79</i> | <i>33.07</i> | <i>14.73</i> | <i>Y</i> | <i>seawater</i> | <u>TSS only</u> Full suite | <i>SP-RW-19-G-B-20150707</i> | |
| <i>11:50</i> | <i>4.5</i> | <i>M</i> | <i>8.42</i> | <i>7.76</i> | <i>32.94</i> | <i>17.11</i> | <i>Y</i> | <i>seawater</i> | <u>TSS only</u> Full suite | <i>SP-RW-19-G-M-20150707</i> | |
| <i>11:50</i> | <i>6</i> | <i>S</i> | <i>8.23</i> | <i>7.77</i> | <i>32.83</i> | <i>19.11</i> | <i>Y</i> | <i>seawater</i> | TSS only <u>Full suite</u> | <i>SP-RW-19-G-B-20150707</i> | |
| | | | | | | | | | TSS only Full suite | | |
| | | | | | | | | | TSS only Full suite | | |
| | | | | | | | | | TSS only Full suite | | |
| | | | | | | | | | TSS only Full suite | | |
| QA/QC Samples Collected: Y / N | | Field duplicate (5% of project) / Field blank (1 during monitoring event) / Rinsate blank (1 during monitoring event) | | | | | | | TSS only Full suite | | |
| Comments (include photographs taken, if any): <i>GPS coordinates do not match location marked on map. Will send GPS screenshot of actual location (1/2 way to jetty entrance from oil island).</i> | | | | | | | | | | | |

- Notes:
- Field measurements will be made in triplicate on 5 percent of measurements to ensure project DQOs are met. These measurements will be recorded on the next page.
 - Description should include suspended or floating material, color, odor, or sheen.

Water Quality Sample Form

| Project Name: TMDL Compliance WQ | | | Project Number: 141205-01 | | | Date: 7/7/15 | | | Time: 11:10 | | | |
|--|-----------|---|---------------------------|------|--------------------------------|--------------|-----------------------------------|---|-----------------------|------------|-----------------------|--|
| Station ID: 20 | | Latitude/Northing: 33.72547972 | | | Longitude/Easting: 118.1573317 | | | Water Depth (ft): 51.5 (m): 15.1 | | | | |
| Weather Conditions: overcast, 90% cloud cover | | | | | | | | Field Personnel: RW NDTG | | | | |
| Wind Speed and Direction (see Beaufort Scale): no wind or current | | | | | | | | Recorded By: ND | | | | |
| Biological Activity (e.g., presence of fish, birds, macrophytes, phytoplankton): gulls | | | | | | | | | | | | |
| Description of In-water activities (e.g., recreational boating, active discharges): commercial & recreational boat traffic | | | | | | | | | | | | |
| In Situ Field Parameters ¹ and Water Sample Collection | | | | | | | | | | | | |
| Time | Depth (m) | Surface (S), Mid-depth (M), or Bottom (B) | DO (mg/L) | pH | Salinity (ppt) | Temp (°C) | Chemistry Sample Collected? (Y/N) | Physical Description of Sample ² | Analytes (circle one) | | Sample ID | |
| 11:10 | 15 | B | 7.95 | 7.80 | 33.06 | 14.82 | Y | seawater | TSS only | Full suite | SP-RW-20-G-B-20150707 | |
| 11:10 | 7 | M | 8.21 | 7.81 | 33.06 | 15.97 | Y | seawater | TSS only | Full suite | SP-RW-20-G-M-20150707 | |
| 11:10 | 0 | S | 8.95 | 7.75 | 33.06 | 17.98 | Y | seawater | TSS only | Full suite | SP-RW-20-G-S-20150707 | |
| | | | | | | | | | TSS only | Full suite | | |
| | | | | | | | | | TSS only | Full suite | | |
| | | | | | | | | | TSS only | Full suite | | |
| | | | | | | | | | TSS only | Full suite | | |
| QA/QC Samples Collected: Y/N | | Field duplicate (5% of project) / Field blank (1 during monitoring event) / Rinsate blank (1 during monitoring event) | | | | | | | TSS only | | Full suite | |
| Comments (include photographs taken, if any): | | | | | | | | | | | | |

- Notes:
- Field measurements will be made in triplicate on 5 percent of measurements to ensure project DQOs are met. These measurements will be recorded on the next page.
 - Description should include suspended or floating material, color, odor, or sheen.



Water Quality Sample Form

| Project Name: <u>TMDL Compliance</u> | | | Project Number: <u>141205-01</u> | | | Date: <u>7/7/15</u> | | Time: <u>8:55</u> | | | |
|---|-----------|---|----------------------------------|---------------------------------------|----------------|----------------------------------|-----------------------------------|---|----------------------------|--------------------|--|
| Station ID: <u>21</u> | | Latitude/Northing: <u>33.75644363</u> | | Longitude/Easting: <u>118.1993943</u> | | Water Depth (ft): <u>31</u> (m): | | | | | |
| Weather Conditions: <u>Overcast</u> | | | | | | | Field Personnel: <u>RW/ND/TG</u> | | | | |
| Wind Speed and Direction (see Beaufort Scale): <u>< 5 mph</u> | | | | | | | Recorded By: <u>ND</u> | | | | |
| Biological Activity (e.g., presence of fish, birds, macrophytes, phytoplankton): <u>Elegant Terns, Seagulls, Brown Pelicans</u> | | | | | | | | | | | |
| Description of In-water activities (e.g., recreational boating, active discharges): <u>None</u> | | | | | | | | | | | |
| In Situ Field Parameters ¹ and Water Sample Collection | | | | | | | | | | | |
| Time | Depth (m) | Surface (S), Mid-depth (M), or Bottom (B) | DO (mg/L) | pH | Salinity (ppt) | Temp (°C) | Chemistry Sample Collected? (Y/N) | Physical Description of Sample ² | Analytes (circle one) | Sample ID | |
| 08:55 | 3 | B | 5.08 | 7.63 | 31.72 | 17.84 | N Y | cloudy | TSS only Full suite | LE-RW-6-B-20150707 | |
| 08:55 | 1.5 | M | 5.95 | 7.71 | 29.20 | 18.56 | N Y | cloudy | TSS only Full suite | LE-RW-G-M-20150707 | |
| 08:55 | .5 | S | 5.36 | 7.74 | 25.20 | 19.27 | Y | cloudy | TSS only <u>Full suite</u> | LE-RW-G-S-20150707 | |
| | | | | | | | | | TSS only Full suite | | |
| | | | | | | | | | TSS only Full suite | | |
| | | | | | | | | | TSS only Full suite | | |
| | | | | | | | | | TSS only Full suite | | |
| QA/QC Samples Collected: Y/ <u>N</u> | | Field duplicate (5% of project) / Field blank (1 during monitoring event) / Rinsate blank (1 during monitoring event) | | | | | | | TSS only Full suite | | |
| Comments (include photographs taken, if any): | | | | | | | | | | | |

- Notes:
1. Field measurements will be made in triplicate on 5 percent of measurements to ensure project DQOs are met. These measurements will be recorded on the next page.
 2. Description should include suspended or floating material, color, odor, or sheen.

Water Quality Sample Form

| Project Name: <u>TMDL Compliance</u> | | | Project Number: <u>141205-31</u> | | | Date: <u>7/7/15</u> | | Time: <u>8:20</u> | | | |
|--|------------|---|----------------------------------|-------------|--------------------------------------|---------------------|-----------------------------------|---|-----------------------------------|-------------------|------------------------------|
| Station ID: <u>22</u> | | Latitude/Northing: <u>33.761013</u> | | | Longitude/Easting: <u>118.202111</u> | | | Water Depth (ft): <u>4</u> (m): <u>1</u> | | | |
| Weather Conditions: <u>Overcast</u> | | | | | | | | Field Personnel: <u>ND/RW/TG</u> | | | |
| Wind Speed and Direction (see Beaufort Scale): <u>< 5 mph</u> | | | | | | | | Recorded By: <u>ND</u> | | | |
| Biological Activity (e.g., presence of fish, birds, macrophytes, phytoplankton): <u>Seagulls, Elegant Terns, Brown Pelican, Cormorants</u> | | | | | | | | | | | |
| Description of In-water activities (e.g., recreational boating, active discharges): <u>Commercial Boat Traffic</u> | | | | | | | | | | | |
| In Situ Field Parameters ¹ and Water Sample Collection | | | | | | | | | | | |
| Time | Depth (m) | Surface (S), Mid-depth (M), or Bottom (B) | DO (mg/L) | pH | Salinity (ppt) | Temp (°C) | Chemistry Sample Collected? (Y/N) | Physical Description of Sample ² | Analytes (circle one) | | Sample ID |
| <u>08:23</u> | <u>3.5</u> | <u>B</u> | <u>5.23</u> | <u>7.62</u> | <u>32.61</u> | <u>17.20</u> | <u>Y</u> | <u>cloudy</u> | <u>TSS only</u> | <u>Full suite</u> | <u>LE-RW-22-G-B-20150707</u> |
| <u>08:20</u> | <u>2.0</u> | <u>M</u> | <u>3.39</u> | <u>7.63</u> | <u>27.50</u> | <u>18.71</u> | <u>Y</u> | <u>cloudy</u> | <u>TSS only</u> | <u>Full suite</u> | <u>LE-RW-22-G-M-20150707</u> |
| <u>08:20</u> | <u>.5</u> | <u>S</u> | <u>3.29</u> | <u>7.69</u> | <u>34.39</u> | <u>19.41</u> | <u>Y</u> | <u>cloudy</u> | <u>TSS only</u> | <u>Full suite</u> | <u>LE-RW-22-G-T-20150707</u> |
| | | | | | | | | | <u>TSS only</u> | <u>Full suite</u> | |
| | | | | | | | | | <u>TSS only</u> | <u>Full suite</u> | |
| | | | | | | | | | <u>TSS only</u> | <u>Full suite</u> | |
| | | | | | | | | | <u>TSS only</u> | <u>Full suite</u> | |
| QA/QC Samples Collected: <u>Y</u> / <u>N</u> | | Field duplicate (5% of project) / Field blank (1 during monitoring event) / Rinsate blank (1 during monitoring event) | | | | | | | <u>TSS only</u> <u>Full suite</u> | | |
| Comments (include photographs taken, if any): | | | | | | | | | | | |

Notes:

1. Field measurements will be made in triplicate on 5 percent of measurements to ensure project DQOs are met. These measurements will be recorded on the next page.
2. Description should include suspended or floating material, color, odor, or sheen.

DQO Measurements

| Project Name: <u>TMDL Compliance WA</u> | | | Project Number: <u>141205-01.01</u> | | | | |
|---|---|-----------|-------------------------------------|------------|---------------------|--------------|----------|
| Station ID: <u>IA-RW-03</u> | | Time: | | | Date: <u>7/7/15</u> | | |
| In Situ Field Parameters ¹ | | | | | | | |
| Time | Surface (S), Mid-depth (M), or Bottom (B) | Depth (m) | DO (mg/L) | pH (units) | Salinity (ppt) | Temp (°C) | Comments |
| 1517 | S | 1 | 3.4 | 8.2 | 32.3 | 18.4 | |
| 1517 | S | 1 | 3.3 | 8.2 | 32.3 | 18.4 | |
| 1518 | S | 1 | 3.3 | 8.2 | 32.3 | 18.4 | |
| Average | | 1 | 3.3 | 8.2 | 32.3 | 18.4 | |
| Difference between max and min | | 0 | 0.1 | 0 | 0 | 0 | |
| RPD | | 0 | 3.0 | 0 | 0 | 0 | |
| Precision | | ± 0.1 | 5 percent | ± 0.2 | ± 0.2 | ± 0.5 °C | |
| DQO Met? (Y/N) ² | | Y | Y | Y | Y | Y | |
| Time | Surface (S), Mid-depth (M), or Bottom (B) | Depth (m) | DO (mg/L) | pH | Salinity (ppt) | Temp (°C) | Comments |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| Average | | | | | | | |
| Difference between max and min | | | | | | | |
| RPD | | | | | | | |
| Precision | | ± 0.1 | 5 percent | ± 0.2 | ± 0.2 | ± 0.5 °C | |
| DQO Met? (Y/N) ² | | | | | | | |
| Comments: | | | | | | | |

Notes:

- Field measurements will be made in triplicate on 5 percent of measurements to ensure project DQOs are met. Each result will be recorded along with the average of the three results, the difference between the largest and smallest result, and the percent difference between the largest and smallest result. The percent difference will be calculated as follows:

$$\text{Percent difference} = 100 * (\text{largest} - \text{smallest}) / \text{average}$$

Triplicate measurements, the average of the results, and percent difference will be recorded on the field data sheet. The percent difference, as appropriate, will be compared against the precision criteria established for field measurements in Table 7.

- If no, write corrective actions taken in the comments box (e.g., re-calibrated instrument, etc.) and re-measure.

DQO Measurements

| Project Name: <i>GWMA TMDL Compliance</i> | | | | Project Number: <i>141205-01.01</i> | | | |
|---|---|-------------------|--------------|-------------------------------------|-------------------------------------|--------------|----------|
| Station ID: <i>1B-RW-14</i> | | Time: <i>1116</i> | | Date: <i>7/7/15</i> | | | |
| In Situ Field Parameters ¹ | | | | | | | |
| Time | Surface (S), Mid-depth (M), or Bottom (B) | Depth (m) | DO (mg/L) | pH (units) | Salinity (ppt) <i>34.1</i> | Temp (°C) | Comments |
| <i>1116</i> | <i>S</i> | <i>1</i> | <i>8.71</i> | <i>8.10</i> | <i>44.77</i> | <i>17.92</i> | |
| <i>1119</i> | <i>S</i> | <i>1</i> | <i>8.82</i> | <i>8.14</i> | <i>44.77</i> <i>34.1</i> | <i>17.85</i> | |
| <i>1120</i> | <i>S</i> | <i>1</i> | <i>8.82</i> | <i>8.14</i> | <i>44.77</i> <i>34.1</i> | <i>17.84</i> | |
| Average | | <i>1</i> | <i>8.78</i> | <i>8.12</i> | <i>34.2</i> | <i>17.87</i> | |
| Difference between max and min | | <i>0</i> | <i>0.11</i> | <i>0.04</i> | <i>0.2</i> | <i>0.8</i> | |
| RPD | | <i>0</i> | <i>1.3</i> | <i>0.5</i> | <i>0.58</i> | | |
| Precision | | ± 0.1 | 5 percent | ± 0.2 | ± 0.2 | ± 0.5 °C | |
| DQO Met? (Y/N) ² | | <i>Y</i> | <i>Y</i> | <i>Y</i> | <i>Y</i> | <i>Y</i> | |
| Time | Surface (S), Mid-depth (M), or Bottom (B) | Depth (m) | DO (mg/L) | pH | Salinity (ppt) | Temp (°C) | Comments |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| Average | | | | | | | |
| Difference between max and min | | | | | | | |
| RPD | | | | | | | |
| Precision | | ± 0.1 | 5 percent | ± 0.2 | ± 0.2 | ± 0.5 °C | |
| DQO Met? (Y/N) ² | | | | | | | |
| Comments: | | | | | | | |

Notes:

- Field measurements will be made in triplicate on 5 percent of measurements to ensure project DQOs are met. Each result will be recorded along with the average of the three results, the difference between the largest and smallest result, and the percent difference between the largest and smallest result. The percent difference will be calculated as follows:

$$\text{Percent difference} = 100 * (\text{largest} - \text{smallest}) / \text{average}$$

Triplicate measurements, the average of the results, and percent difference will be recorded on the field data sheet. The percent difference, as appropriate, will be compared against the precision criteria established for field measurements in Table 8.

- If no, write corrective actions taken in the comments box (e.g., re-calibrated instrument, etc.) and re-measure.

DQO Measurements

| Project Name: <i>TMDL Compliance</i> | | | Project Number: <i>141905-01</i> | | | | |
|---------------------------------------|---|--------------------|----------------------------------|---------------------|----------------|--------------|----------|
| Station ID: <i>17</i> | | Time: <i>10:20</i> | | Date: <i>7/7/18</i> | | | |
| In Situ Field Parameters ¹ | | | | | | | |
| Time | Surface (S), Mid-depth (M), or Bottom (B) | Depth (m) | DO (mg/L) | pH (units) | Salinity (ppt) | Temp (°C) | Comments |
| | <i>S</i> | <i>0</i> | <i>8.32</i> | <i>7.75</i> | <i>33.04</i> | <i>16.97</i> | |
| | <i>S</i> | <i>0</i> | <i>8.33</i> | <i>7.75</i> | <i>33.05</i> | <i>16.97</i> | |
| | <i>S</i> | <i>0</i> | <i>8.31</i> | <i>7.75</i> | <i>33.03</i> | <i>16.97</i> | |
| Average | | <i>0</i> | <i>8.32</i> | <i>7.75</i> | <i>33.04</i> | <i>16.97</i> | |
| Difference between max and min | | <i>0</i> | <i>.02</i> | <i>0</i> | <i>.02</i> | <i>0</i> | |
| RPD | | <i>—</i> | <i>.24</i> | <i>—</i> | <i>.06</i> | <i>—</i> | |
| Precision | | ± 0.1 | 5 percent | ± 0.2 | ± 0.2 | ± 0.5 °C | |
| DQO Met? (Y/N) ² | | <i>Y</i> | <i>Y</i> | <i>Y</i> | <i>Y</i> | <i>Y</i> | |
| Time | Surface (S), Mid-depth (M), or Bottom (B) | Depth (m) | DO (mg/L) | pH | Salinity (ppt) | Temp (°C) | Comments |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| Average | | | | | | | |
| Difference between max and min | | | | | | | |
| RPD | | | | | | | |
| Precision | | ± 0.1 | 5 percent | ± 0.2 | ± 0.2 | ± 0.5 °C | |
| DQO Met? (Y/N) ² | | | | | | | |
| Comments: | | | | | | | |

Notes:

- Field measurements will be made in triplicate on 5 percent of measurements to ensure project DQOs are met. Each result will be recorded along with the average of the three results, the difference between the largest and smallest result, and the percent difference between the largest and smallest result. The percent difference will be calculated as follows:

$$\text{Percent difference} = 100 * (\text{largest} - \text{smallest}) / \text{average}$$

Triplicate measurements, the average of the results, and percent difference will be recorded on the field data sheet. The percent difference, as appropriate, will be compared against the precision criteria established for field measurements in Table 7.

- If no, write corrective actions taken in the comments box (e.g., re-calibrated instrument, etc.) and re-measure.

DQO Measurements

| Project Name: <i>TMDC Compliance</i> | | | Project Number: <i>141205-01</i> | | | | |
|---------------------------------------|---|--------------------|----------------------------------|----------------------|----------------|---------------|----------|
| Station ID: <i>18</i> | | Time: <i>09:20</i> | | Date: <i>1/17/13</i> | | | |
| In Situ Field Parameters ¹ | | | | | | | |
| Time | Surface (S), Mid-depth (M), or Bottom (B) | Depth (m) | DO (mg/L) | pH (units) | Salinity (ppt) | Temp (°C) | Comments |
| <i>09:20</i> | <i>S</i> | <i>0</i> | <i>7.07</i> | <i>7.74</i> | <i>30.20</i> | <i>18.35</i> | |
| <i>↓</i> | <i>S</i> | <i>0</i> | <i>7.07</i> | <i>7.74</i> | <i>30.34</i> | <i>18.34</i> | |
| <i>↓</i> | <i>S</i> | <i>0</i> | <i>7.07</i> | <i>7.75</i> | <i>30.36</i> | <i>18.37</i> | |
| Average | | <i>0</i> | <i>7.07</i> | <i>7.743</i> | <i>30.32</i> | <i>18.353</i> | |
| Difference between max and min | | <i>0</i> | <i>0</i> | <i>.01</i> | <i>.07</i> | <i>.03</i> | |
| RPD | | <i>na</i> | <i>na</i> | <i>0.129</i> | <i>.2</i> | <i>0.163</i> | |
| Precision | | ± 0.1 | 5 percent | ± 0.2 | ± 0.2 | ± 0.5 °C | |
| DQO Met? (Y/N) ² | | <i>Y</i> | <i>Y</i> | <i>Y</i> | <i>Y</i> | <i>Y</i> | |
| Time | Surface (S), Mid-depth (M), or Bottom (B) | Depth (m) | DO (mg/L) | pH | Salinity (ppt) | Temp (°C) | Comments |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| Average | | | | | | | |
| Difference between max and min | | | | | | | |
| RPD | | | | | | | |
| Precision | | ± 0.1 | 5 percent | ± 0.2 | ± 0.2 | ± 0.5 °C | |
| DQO Met? (Y/N) ² | | | | | | | |
| Comments: | | | | | | | |

Notes:

- Field measurements will be made in triplicate on 5 percent of measurements to ensure project DQOs are met. Each result will be recorded along with the average of the three results, the difference between the largest and smallest result, and the percent difference between the largest and smallest result. The percent difference will be calculated as follows:

$$\text{Percent difference} = 100 * (\text{largest} - \text{smallest}) / \text{average}$$

Triplicate measurements, the average of the results, and percent difference will be recorded on the field data sheet. The percent difference, as appropriate, will be compared against the precision criteria established for field measurements in Table 7.

- If no, write corrective actions taken in the comments box (e.g., re-calibrated instrument, etc.) and re-measure.

Water Quality Sample Form

| Project Name: <i>TMDL Compliance WQ</i> | | Project Number: <i>141205-01</i> | | Date: <i>11/2/14</i> | | Time: <i>0850</i> | | | | |
|---|------------|---|------------|--------------------------------------|----------------|------------------------------------|-----------------------------------|---|----------------------------|---------------------|
| Station ID: <i>CS-RW-01</i> | | Latitude/Northing: <i>33.77480</i> | | Longitude/Easting: <i>-118.24536</i> | | Water Depth (ft): <i>22 (6.7m)</i> | | | | |
| Weather Conditions: <i>Sunny w/ few clouds</i> | | | | | | Field Personnel: <i>CO, KM</i> | | | | |
| Wind Speed and Direction (see Beaufort Scale): <i>0 mph. NO wind</i> | | | | | | | | | | |
| Biological Activity (e.g., presence of fish, birds, macrophytes, phytoplankton): <i>1 western grebe, 2 cormorants^{brands}, 1 western gull, 1 brown pelican</i> | | | | | | | | | | |
| Description of In-water activities (e.g., recreational boating, active discharges): <i>None</i> | | | | | | | | | | |
| In Situ Field Parameters ¹ and Water Sample Collection | | | | | | | | | | |
| Time | Depth (m) | Surface (S), Mid-depth (M), or Bottom (B) | DO (mg/L) | pH | Salinity (ppt) | Temp (°C) | Chemistry Sample Collected? (Y/N) | Physical Description of Sample ² | Analytes (circle one) | Sample ID |
| <i>0852</i> | <i>1</i> | <i>S</i> | <i>4.3</i> | <i>7.8</i> | <i>31.9</i> | <i>19.8</i> | <i>Y</i> | <i>see comments</i> | TSS only <u>Full suite</u> | <i>CS-RW-01-G-S</i> |
| <i>0908</i> | <i>3.3</i> | <i>M</i> | <i>4.4</i> | <i>7.8</i> | <i>32.6</i> | <i>20.0</i> | <i>Y</i> | <i>↓</i> | <u>TSS only</u> Full suite | <i>CS-RW-01-G-M</i> |
| <i>0912</i> | <i>5.7</i> | <i>B</i> | <i>4.6</i> | <i>7.8</i> | <i>33.1</i> | <i>20.1</i> | <i>Y</i> | <i>↓</i> | <u>TSS only</u> Full suite | <i>CS-RW-01-G-B</i> |
| | | | | | | | | | TSS only Full suite | |
| | | | | | | | | | TSS only Full suite | |
| | | | | | | | | | TSS only Full suite | |
| | | | | | | | | | TSS only Full suite | |
| QA/QC Samples Collected: <i>Y/N</i> | | Field duplicate (5% of project) / Field blank (1 during monitoring event) / Rinsate blank (1 during monitoring event) | | | | | | TSS only Full suite | | |
| Comments (include photographs taken, if any): <i>Trace turbidity, faint tan color, no sheen, no odor</i> | | | | | | | | | | |

- Notes:
- Field measurements will be made in triplicate on 5 percent of measurements to ensure project DQOs are met. These measurements will be recorded on the next page.
 - Description should include suspended or floating material, color, odor, or sheen.

Water Quality Sample Form

| Project Name: <i>TMDL Compliance WQ</i> | | | Project Number: <i>141205-01</i> | | | Date: <i>11/2/14</i> | | Time: <i>0953</i> | | | |
|---|-------------|---|----------------------------------|------------|--------------------------------------|----------------------|-----------------------------------|---|---|---------------------|--|
| Station ID: <i>IA-RW-02</i> | | Latitude/Northing: <i>33.76283</i> | | | Longitude/Easting: <i>-118.25434</i> | | | Water Depth (ft): <i>55 (17.7m)</i> | | | |
| Weather Conditions: <i>Sunny w/ few clouds</i> | | | | | | | | Field Personnel: <i>CO, KM</i> | | | |
| Wind Speed and Direction (see Beaufort Scale): <i>< 1 mph from SE</i> | | | | | | | | | | | |
| Biological Activity (e.g., presence of fish, birds, macrophytes, phytoplankton): <i>1 brown pelican, 1 s. cormorant</i> | | | | | | | | | | | |
| Description of In-water activities (e.g., recreational boating, active discharges): <i>1 recreational boat outboard.</i> | | | | | | | | | | | |
| In Situ Field Parameters ¹ and Water Sample Collection | | | | | | | | | | | |
| Time | Depth (m) | Surface (S), Mid-depth (M), or Bottom (B) | DO (mg/L) | pH | Salinity (ppt) | Temp (°C) | Chemistry Sample Collected? (Y/N) | Physical Description of Sample ² | Analytes (circle one) | Sample ID | |
| <i>0956</i> | <i>1</i> | <i>S</i> | <i>4.4</i> | <i>7.8</i> | <i>32.4</i> | <i>20.1</i> | <i>Y</i> | <i>Trace particulates, very slight tan</i> | <input checked="" type="radio"/> TSS only <input checked="" type="radio"/> Full suite | <i>IA-RW-02-G-S</i> | |
| <i>0957</i> | <i>8.8</i> | <i>M</i> | <i>4.8</i> | <i>7.9</i> | <i>33.1</i> | <i>20.0</i> | <i>Y</i> | <i>see comments</i> | <input checked="" type="radio"/> TSS only <input type="radio"/> Full suite | <i>IA-RW-02-G-M</i> | |
| <i>0958</i> | <i>16.7</i> | <i>B</i> | <i>4.3</i> | <i>7.9</i> | <i>33.1</i> | <i>19.6</i> | <i>Y</i> | <i>↓</i> | <input checked="" type="radio"/> TSS only <input type="radio"/> Full suite | <i>IA-RW-02-G-B</i> | |
| | | | | | | | | | <input type="radio"/> TSS only <input type="radio"/> Full suite | | |
| | | | | | | | | | <input type="radio"/> TSS only <input type="radio"/> Full suite | | |
| | | | | | | | | | <input type="radio"/> TSS only <input type="radio"/> Full suite | | |
| | | | | | | | | | <input type="radio"/> TSS only <input type="radio"/> Full suite | | |
| QA/QC Samples Collected: <input checked="" type="radio"/> Y <input type="radio"/> N | | Field duplicate (5% of project) / Field blank (1 during monitoring event) / Rinsate blank (1 during monitoring event) | | | | | | | <input type="radio"/> TSS only <input type="radio"/> Full suite | | |
| Comments (include photographs taken, if any): <i>S = Trace particulates, very slight tan, no sheen, no odor M and B = No particulates, odor, color, or sheen.</i> | | | | | | | | | | | |

- Notes:
- Field measurements will be made in triplicate on 5 percent of measurements to ensure project DQOs are met. These measurements will be recorded on the next page.
 - Description should include suspended or floating material, color, odor, or sheen.

Water Quality Sample Form

| Project Name: <u>TMDL Compliance WQ</u> | | Project Number: <u>141205-01</u> | | Date: <u>11/2/14</u> | | Time: <u>1037</u> | | | | |
|---|------------------------------------|---|--------------------------------------|----------------------|--------------------------------------|--------------------------------|-----------------------------------|---|--|---------------------|
| Station ID: <u>IA-RW-03</u> | Latitude/Northing: <u>33.76229</u> | | Longitude/Easting: <u>-118.27410</u> | | Water Depth (ft): <u>57 (17.3 m)</u> | | | | | |
| Weather Conditions: <u>Sunny w/ few clouds</u> | | | | | | Field Personnel: <u>CS, KM</u> | | | | |
| Wind Speed and Direction (see Beaufort Scale): <u>1-3 mph from N</u> | | | | | | | | | | |
| Biological Activity (e.g., presence of fish, birds, macrophytes, phytoplankton): <u>several western gulls</u> | | | | | | | | | | |
| Description of In-water activities (e.g., recreational boating, active discharges): <u>None</u> | | | | | | | | | | |
| In Situ Field Parameters ¹ and Water Sample Collection | | | | | | | | | | |
| Time | Depth (m) | Surface (S), Mid-depth (M), or Bottom (B) | DO (mg/L) | pH | Salinity (ppt) | Temp (°C) | Chemistry Sample Collected? (Y/N) | Physical Description of Sample ² | Analytes (circle one) | Sample ID |
| 1038 | <u>1.0</u> | <u>S</u> | <u>7.2</u> | <u>7.9</u> | <u>33.0</u> | <u>20.0</u> | <u>Y</u> | <u>see comments</u> | TSS only <input checked="" type="radio"/> Full suite | <u>IA-RW-03-G-S</u> |
| 1040 | <u>8.6</u> | <u>M</u> | <u>6.1</u> | <u>7.8</u> | <u>33.1</u> | <u>19.9</u> | <u>Y</u> | <u> </u> | <input checked="" type="radio"/> TSS only Full suite | <u>IA-RW-03-G-M</u> |
| 1041 | <u>16.3</u> | <u>B</u> | <u>5.3</u> | <u>7.8</u> | <u>33.1</u> | <u>19.6</u> | <u>Y</u> | <u> </u> | <input checked="" type="radio"/> TSS only Full suite | <u>IA-RW-03-G-B</u> |
| | | | | | | | | | TSS only Full suite | |
| | | | | | | | | | TSS only Full suite | |
| | | | | | | | | | TSS only Full suite | |
| | | | | | | | | | TSS only Full suite | |
| QA/QC Samples Collected: <u>Y/N</u> | | Field duplicate (5% of project) / Field blank (1 during monitoring event) / Rinsate blank (1 during monitoring event) | | | | | | TSS only Full suite | | |
| Comments (include photographs taken, if any): <u>No color, odor, or sheen. slight particulates in bottom sample</u> | | | | | | | | | | |

Notes:

1. Field measurements will be made in triplicate on 5 percent of measurements to ensure project DQOs are met. These measurements will be recorded on the next page.
2. Description should include suspended or floating material, color, odor, or sheen.

Water Quality Sample Form

| Project Name: <i>TMDL Compliance WQ</i> | | | Project Number: <i>141205-01</i> | | | Date: <i>11/2/14</i> | | | Time: <i>11:11</i> | | | |
|---|-------------|---|----------------------------------|------------|--------------------------------------|----------------------|-----------------------------------|---|---|---|----------------------------------|-----------------------|
| Station ID: <i>IA-RW-04</i> | | Latitude/Northing: <i>33.75390</i> | | | Longitude/Easting: <i>-118.27151</i> | | | Water Depth (ft): <i>59 (18.1m)</i> | | | | |
| Weather Conditions: <i>sunny w/ few clouds</i> | | | | | | | | Field Personnel: <i>CO, KM</i> | | | | |
| Wind Speed and Direction (see Beaufort Scale): <i>1-3 mph from N</i> | | | | | | | | | | | | |
| Biological Activity (e.g., presence of fish, birds, macrophytes, phytoplankton): <i>2 sea lions, 1 brown pelican, 1 western gull, bait fish</i> | | | | | | | | | | | | |
| Description of In-water activities (e.g., recreational boating, active discharges): <i>None</i> | | | | | | | | | | | | |
| In Situ Field Parameters ¹ and Water Sample Collection | | | | | | | | | | | | |
| Time | Depth (m) | Surface (S), Mid-depth (M), or Bottom (B) | DO (mg/L) | pH | Salinity (ppt) | Temp (°C) | Chemistry Sample Collected? (Y/N) | Physical Description of Sample ² | Analytes (circle one) | | Sample ID | |
| <i>1113</i> | <i>1</i> | <i>S</i> | <i>6.7</i> | <i>7.8</i> | <i>32.8</i> | <i>20.1</i> | <i>Y</i> | <i>See comments</i> | <input checked="" type="radio"/> TSS only | <input checked="" type="radio"/> Full suite | <i>IA-RW-04-G-S</i> | |
| <i>1114</i> | <i>9.0</i> | <i>M</i> | <i>6.5</i> | <i>7.8</i> | <i>33.1</i> | <i>19.9</i> | <i>Y</i> | <i>↓</i> | <input checked="" type="radio"/> TSS only | <input type="radio"/> Full suite | <i>IA-RW-04-G-M</i> | |
| <i>1114</i> | <i>17.1</i> | <i>B</i> | <i>6.5</i> | <i>7.9</i> | <i>33.2</i> | <i>18.7</i> | <i>Y</i> | <i>↓</i> | <input checked="" type="radio"/> TSS only | <input type="radio"/> Full suite | <i>IA-RW-04-G-B</i> | |
| | | | | | | | | | <input type="radio"/> TSS only | <input type="radio"/> Full suite | | |
| | | | | | | | | | <input type="radio"/> TSS only | <input type="radio"/> Full suite | | |
| | | | | | | | | | <input type="radio"/> TSS only | <input type="radio"/> Full suite | | |
| | | | | | | | | | <input type="radio"/> TSS only | <input type="radio"/> Full suite | | |
| QA/QC Samples Collected: <input checked="" type="checkbox"/> Y / <input type="checkbox"/> N | | Field duplicate (5% of project) / Field blank (1 during monitoring event) / Rinsate blank (1 during monitoring event) | | | | | | | | <input checked="" type="radio"/> TSS only | <input type="radio"/> Full suite | <i>IA-RW-1004-G-S</i> |
| Comments (include photographs taken, if any): <i>Trace particulates, no color, odor, or sheen.</i> | | | | | | | | | | | | |

- Notes:
- Field measurements will be made in triplicate on 5 percent of measurements to ensure project DQOs are met. These measurements will be recorded on the next page.
 - Description should include suspended or floating material, color, odor, or sheen.

Water Quality Sample Form

| Project Name: <i>TMDL Compliance WQ</i> | | Project Number: <i>141205-01</i> | | Date: <i>11/2/14</i> | | Time: <i>1248</i> | | | | |
|---|-------------|---|------------|--------------------------------------|----------------|--|-----------------------------------|---|---|---------------------|
| Station ID: <i>IA-RW-05</i> | | Latitude/Northing: <i>33.73244</i> | | Longitude/Easting: <i>-118.25134</i> | | Water Depth (ft): <i>56.8 (17.3 m)</i> | | | | |
| Weather Conditions: <i>Sunny w/ few clouds</i> | | | | | | Field Personnel: <i>CO, KM</i> | | | | |
| Wind Speed and Direction (see Beaufort Scale): <i>3-7 mph from SW</i> | | | | | | | | | | |
| Biological Activity (e.g., presence of fish, birds, macrophytes, phytoplankton): <i>1 b. Cormorant, 1 western grebe, 1 western gull</i> | | | | | | | | | | |
| Description of In-water activities (e.g., recreational boating, active discharges): <i>None</i> | | | | | | | | | | |
| In Situ Field Parameters ¹ and Water Sample Collection | | | | | | | | | | |
| Time | Depth (m) | Surface (S), Mid-depth (M), or Bottom (B) | DO (mg/L) | pH | Salinity (ppt) | Temp (°C) | Chemistry Sample Collected? (Y/N) | Physical Description of Sample ² | Analytes (circle one) | Sample ID |
| <i>1250</i> | <i>4.1</i> | <i>S</i> | <i>7.4</i> | <i>7.9</i> | <i>33.0</i> | <i>19.9</i> | <i>Y</i> | <i>see comment below</i> | <input checked="" type="radio"/> TSS only <input checked="" type="radio"/> Full suite | <i>IA-RW-05-G-S</i> |
| <i>1251</i> | <i>8.6</i> | <i>M</i> | <i>6.7</i> | <i>7.9</i> | <i>33.2</i> | <i>19.0</i> | <i>Y</i> | <i>↓</i> | <input checked="" type="radio"/> TSS only <input checked="" type="radio"/> Full suite | <i>IA-RW-05-G-M</i> |
| <i>1252</i> | <i>16.3</i> | <i>B</i> | <i>6.2</i> | <i>7.9</i> | <i>33.2</i> | <i>19.0</i> | <i>Y</i> | <i>↓</i> | <input checked="" type="radio"/> TSS only <input checked="" type="radio"/> Full suite | <i>IA-RW-05-G-B</i> |
| | | | | | | | | | <input type="radio"/> TSS only <input type="radio"/> Full suite | |
| | | | | | | | | | <input type="radio"/> TSS only <input type="radio"/> Full suite | |
| | | | | | | | | | <input type="radio"/> TSS only <input type="radio"/> Full suite | |
| | | | | | | | | | <input type="radio"/> TSS only <input type="radio"/> Full suite | |
| QA/QC Samples Collected: <i>Y/N</i> | | Field duplicate (5% of project) / Field blank (1 during monitoring event) / Rinsate blank (1 during monitoring event) | | | | | | <input type="radio"/> TSS only <input type="radio"/> Full suite | | |
| Comments (include photographs taken, if any): <i>No particulates, color, odor, or sheen</i> | | | | | | | | | | |

Notes:

1. Field measurements will be made in triplicate on 5 percent of measurements to ensure project DQOs are met. These measurements will be recorded on the next page.
2. Description should include suspended or floating material, color, odor, or sheen.

Water Quality Sample Form

| Project Name: <i>TMDL Compliance WQ</i> | | Project Number: <i>141205-01</i> | | Date: <i>11/2/14</i> | | Time: <i>1204</i> | | | | |
|--|------------------------------------|---|--------------------------------------|----------------------|--------------------------------------|-------------------|-----------------------------------|---|---|---------------------|
| Station ID: <i>IA-RW-06</i> | Latitude/Northing: <i>33.72596</i> | | Longitude/Easting: <i>-118.27144</i> | | Water Depth (ft): <i>56.5 (17.2)</i> | | Field Personnel: <i>CO, KM</i> | | | |
| Weather Conditions: <i>Sunny w/ few clouds</i> | | | | | | | | | | |
| Wind Speed and Direction (see Beaufort Scale): <i>3-7 mph from SE</i> | | | | | | | | | | |
| Biological Activity (e.g., presence of fish, birds, macrophytes, phytoplankton): <i>2 brown pelicans, 4 Heermann gulls, 1 western gull</i> | | | | | | | | | | |
| Description of In-water activities (e.g., recreational boating, active discharges): <i>several recreational + commercial vessels</i> | | | | | | | | | | |
| In Situ Field Parameters ¹ and Water Sample Collection | | | | | | | | | | |
| Time | Depth (m) | Surface (S), Mid-depth (M), or Bottom (B) | DO (mg/L) | pH | Salinity (ppt) | Temp (°C) | Chemistry Sample Collected? (Y/N) | Physical Description of Sample ² | Analytes (circle one) | Sample ID |
| <i>1206</i> | <i>1</i> | <i>S</i> | <i>7.0</i> | <i>7.8</i> | <i>32.6</i> | <i>20.1</i> | <i>Y</i> | <i>see comment below</i> | <input checked="" type="radio"/> TSS only <input checked="" type="radio"/> Full suite | <i>IA-RW-06-G-S</i> |
| <i>1207</i> | <i>8.6</i> | <i>M</i> | <i>6.6</i> | <i>7.9</i> | <i>33.1</i> | <i>19.5</i> | <i>Y</i> | | <input checked="" type="radio"/> TSS only <input type="radio"/> Full suite | <i>IA-RW-06-G-M</i> |
| <i>1208</i> | <i>16.2</i> | <i>B</i> | <i>6.5</i> | <i>7.9</i> | <i>33.1</i> | <i>18.6</i> | <i>Y</i> | | <input checked="" type="radio"/> TSS only <input type="radio"/> Full suite | <i>IA-RW-06-G-B</i> |
| | | | | | | | | | <input type="radio"/> TSS only <input type="radio"/> Full suite | |
| | | | | | | | | | <input type="radio"/> TSS only <input type="radio"/> Full suite | |
| | | | | | | | | | <input type="radio"/> TSS only <input type="radio"/> Full suite | |
| | | | | | | | | | <input type="radio"/> TSS only <input type="radio"/> Full suite | |
| QA/QC Samples Collected: <input checked="" type="radio"/> Y <input type="radio"/> N | | Field duplicate (5% of project) / Field blank (1 during monitoring event) / Rinsate blank (1 during monitoring event) | | | | | | <input type="radio"/> TSS only <input type="radio"/> Full suite | | |
| Comments (include photographs taken, if any): <i>No particulates, color, odor, or sheen</i> | | | | | | | | | | |

Notes:

- Field measurements will be made in triplicate on 5 percent of measurements to ensure project DQOs are met. These measurements will be recorded on the next page.
- Description should include suspended or floating material, color, odor, or sheen.

Water Quality Sample Form

| | | | |
|---|------------------------------------|--------------------------------------|------------------------------------|
| Project Name: <u>TMDL Compliance WQ</u> | Project Number: <u>141205-01</u> | Date: <u>11/2/14</u> | Time: <u>1335</u> |
| Station ID: <u>FH-RW-07</u> | Latitude/Northing: <u>33.73580</u> | Longitude/Easting: <u>-118.26726</u> | Water Depth (ft): <u>22 (6.7m)</u> |
| Weather Conditions: <u>sunny w/ few clouds</u> | | | Field Personnel: <u>CO, KM</u> |
| Wind Speed and Direction (see Beaufort Scale): <u>3-7 mph from S</u> | | | |
| Biological Activity (e.g., presence of fish, birds, macrophytes, phytoplankton): <u>3 brown pelican</u> | | | |
| Description of In-water activities (e.g., recreational boating, active discharges): <u>None</u> | | | |

In Situ Field Parameters¹ and Water Sample Collection

| Time | Depth (m) | Surface (S), Mid-depth (M), or Bottom (B) | DO (mg/L) | pH | Salinity (ppt) | Temp (°C) | Chemistry Sample Collected? (Y/N) | Physical Description of Sample ² | Analytes (circle one) | Sample ID |
|------------------------------|---|---|-----------|-----|----------------|-----------|-----------------------------------|---|----------------------------|-------------------------|
| 1338 | 1 | S | 6.7 | 7.8 | 33.1 | 20.1 | Y | see comment | TSS only <u>Full suite</u> | FH-RW-07-G-S |
| 1338 | 3.3 | M | 6.6 | 7.9 | 33.2 | 19.9 | Y | below | <u>TSS only</u> Full suite | FH-RW-07-G-M |
| 1339 | 3.3 | M | 6.5 | 7.9 | 33.2 | 19.9 | N | ↓ | TSS only Full suite | FH-RW-07-G-M |
| 1339 | 3.3 | M | 6.3 | 7.8 | 33.1 | 19.8 | N | | TSS only Full suite | FH-RW-07-G-M |
| 1340 | 5.7 | B | 5.9 | 7.8 | 33.1 | 19.7 | Y | | <u>TSS only</u> Full suite | FH-RW-07-G-B |
| | | | | | | | | | TSS only Full suite | |
| | | | | | | | | | TSS only Full suite | |
| QA/QC Samples Collected: Y/N | Field duplicate (5% of project) / Field blank (1 during monitoring event) / Rinsate blank (1 during monitoring event) | | | | | | | | TSS only Full suite | |

Comments (include photographs taken, if any): Triplicate at mid-depth. TSS lab dup mid-depth. Trace particulates; no color, odor, or sheen

- Notes:
- Field measurements will be made in triplicate on 5 percent of measurements to ensure project DQOs are met. These measurements will be recorded on the next page.
 - Description should include suspended or floating material, color, odor, or sheen.

DQO Measurements

| Project Name: <i>TMDL Compliance WQ</i> | | | Project Number: <i>141205-01</i> | | | | |
|---|---|-------------------|----------------------------------|-------------|----------------------|--------------|----------|
| Station ID: <i>FH-RW-07</i> | | Time: <i>1340</i> | | | Date: <i>11/2/14</i> | | |
| In Situ Field Parameters ¹ | | | | | | | |
| Time | Surface (S), Mid-depth (M), or Bottom (B) | Depth (m) | DO (mg/L) | pH (units) | Salinity (ppt) | Temp (°C) | Comments |
| <i>1338</i> | <i>M</i> | <i>3.3</i> | <i>6.6</i> | <i>7.9</i> | <i>33.2</i> | <i>19.9</i> | |
| <i>1339</i> | <i>M</i> | <i>3.3</i> | <i>6.5</i> | <i>7.9</i> | <i>33.1</i> | <i>19.9</i> | |
| <i>1339</i> | <i>M</i> | <i>3.3</i> | <i>6.3</i> | <i>7.8</i> | <i>33.1</i> | <i>19.8</i> | |
| Average | | <i>3.3</i> | <i>6.467</i> | <i>7.87</i> | <i>33.13</i> | <i>19.87</i> | |
| Difference between max and min | | <i>0</i> | <i>0.3</i> | <i>0.1</i> | <i>0.1</i> | <i>0.1</i> | |
| RPD | | <i>0</i> | <i>4.6</i> | <i>1.27</i> | <i>0.30</i> | <i>0.50</i> | |
| Precision | | ± 0.1 | 5 percent | ± 0.2 | ± 0.2 | ± 0.5 °C | |
| DQO Met? (Y/N) ² | | <i>Y</i> | <i>Y</i> | <i>Y</i> | <i>Y</i> | <i>Y</i> | |
| Time | Surface (S), Mid-depth (M), or Bottom (B) | Depth (m) | DO (mg/L) | pH | Salinity (ppt) | Temp (°C) | Comments |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| Average | | | | | | | |
| Difference between max and min | | | | | | | |
| RPD | | | | | | | |
| Precision | | ± 0.1 | 5 percent | ± 0.2 | ± 0.2 | ± 0.5 °C | |
| DQO Met? (Y/N) ² | | | | | | | |
| Comments: | | | | | | | |

Notes:

- Field measurements will be made in triplicate on 5 percent of measurements to ensure project DQOs are met. Each result will be recorded along with the average of the three results, the difference between the largest and smallest result, and the percent difference between the largest and smallest result. The percent difference will be calculated as follows:

$$\text{Percent difference} = 100 * (\text{largest} - \text{smallest}) / \text{average}$$

Triplicate measurements, the average of the results, and percent difference will be recorded on the field data sheet. The percent difference, as appropriate, will be compared against the precision criteria established for field measurements in Table 7.

- If no, write corrective actions taken in the comments box (e.g., re-calibrated instrument, etc.) and re-measure.

Water Quality Sample Form

| Project Name: <u>TMDL Compliance WQ</u> | | | Project Number: <u>141205-01</u> | | | Date: <u>11.2.14</u> | | | Time: <u>1450</u> | | |
|---|-------------|---|----------------------------------|------------|---------------------------------------|----------------------|-----------------------------------|---|-----------------------|-------------------|---------------------|
| Station ID: <u>OA-RW-08</u> | | Latitude/Northing: <u>33.71594°</u> | | | Longitude/Easting: <u>-118.24049°</u> | | | Water Depth (ft): <u>84.0</u> | | | <u>25.6 m</u> |
| Weather Conditions: <u>Sunny</u> | | | | | | | | Field Personnel: <u>BB, MA</u> | | | |
| Wind Speed and Direction (see Beaufort Scale): <u>3-7 mph from SW</u> | | | | | | | | | | | |
| Biological Activity (e.g., presence of fish, birds, macrophytes, phytoplankton): <u>1 pelican</u> | | | | | | | | | | | |
| Description of In-water activities (e.g., recreational boating, active discharges): <u>none</u> | | | | | | | | | | | |
| In Situ Field Parameters ¹ and Water Sample Collection | | | | | | | | | | | |
| Time | Depth (m) | Surface (S), Mid-depth (M), or Bottom (B) | DO (mg/L) | pH | Salinity (ppt) | Temp (°C) | Chemistry Sample Collected? (Y/N) | Physical Description of Sample ² | Analytes (circle one) | | Sample ID |
| <u>1450</u> | <u>0.75</u> | <u>S</u> | <u>8.1</u> | <u>8.0</u> | <u>33.0</u> | <u>19.0</u> | <u>Y</u> | <u>See comment</u> | <u>TSS only</u> | <u>Full suite</u> | <u>OA-RW-08-G-S</u> |
| <u>1455</u> | <u>12.5</u> | <u>M</u> | <u>8.0</u> | <u>8.0</u> | <u>33.0</u> | <u>18.7</u> | <u>N</u> | <u>↓</u> | <u>TSS only</u> | <u>Full suite</u> | <u>OA-RW-08-G-M</u> |
| <u>1500</u> | <u>25.0</u> | <u>B</u> | <u>8.1</u> | <u>8.0</u> | <u>33.0</u> | <u>17.7</u> | <u>N</u> | <u>↓</u> | <u>TSS only</u> | <u>Full suite</u> | <u>OA-RW-08-G-B</u> |
| | | | | | | | | | <u>TSS only</u> | <u>Full suite</u> | |
| | | | | | | | | | <u>TSS only</u> | <u>Full suite</u> | |
| | | | | | | | | | <u>TSS only</u> | <u>Full suite</u> | |
| | | | | | | | | | <u>TSS only</u> | <u>Full suite</u> | |
| QA/QC Samples Collected: <u>Y/N</u> | | Field duplicate (5% of project) / Field blank (1 during monitoring event) / Rinsate blank (1 during monitoring event) | | | | | | | <u>TSS only</u> | <u>Full suite</u> | |
| Comments (include photographs taken, if any): <u>NO floating material, color, odor, or sheen</u> | | | | | | | | | | | |

- Notes:
- Field measurements will be made in triplicate on 5 percent of measurements to ensure project DQOs are met. These measurements will be recorded on the next page.
 - Description should include suspended or floating material, color, odor, or sheen.

Water Quality Sample Form

| Project Name: <u>TMDL Compliance WQ</u> | | | Project Number: <u>141205-01</u> | | | Date: <u>11.2.14</u> | | | Time: <u>1520</u> | | | |
|--|-------------|---|----------------------------------|------------|---------------------------------------|----------------------|-----------------------------------|---|-----------------------|-------------------|---------------------|--|
| Station ID: <u>OA-RW-09</u> | | Latitude/Northing: <u>33.71178°</u> | | | Longitude/Easting: <u>-118.26441°</u> | | | Water Depth (ft): <u>23.0</u> | | | <u>7.0m</u> | |
| Weather Conditions: <u>Sunny</u> | | | | | | | | Field Personnel: <u>BG, MA</u> | | | | |
| Wind Speed and Direction (see Beaufort Scale): <u>3-6 mph from SW</u> | | | | | | | | | | | | |
| Biological Activity (e.g., presence of fish, birds, macrophytes, phytoplankton): <u>few birds</u> | | | | | | | | | | | | |
| Description of In-water activities (e.g., recreational boating, active discharges): <u>few sailing vessels</u> | | | | | | | | | | | | |
| In Situ Field Parameters ¹ and Water Sample Collection | | | | | | | | | | | | |
| Time | Depth (m) | Surface (S), Mid-depth (M), or Bottom (B) | DO (mg/L) | pH | Salinity (ppt) | Temp (°C) | Chemistry Sample Collected? (Y/N) | Physical Description of Sample ² | Analytes (circle one) | | Sample ID | |
| <u>1520</u> | <u>0.75</u> | <u>S</u> | <u>7.8</u> | <u>8.0</u> | <u>32.8</u> | <u>18.8</u> | <u>Y</u> | <u>See comment</u> | <u>TSS only</u> | <u>Full suite</u> | <u>OA-RW-09-G-S</u> | |
| <u>1525</u> | <u>3.5</u> | <u>M</u> | <u>7.8</u> | <u>8.0</u> | <u>32.8</u> | <u>18.7</u> | <u>N</u> | ↓ | <u>TSS only</u> | <u>Full suite</u> | <u>OA-RW-09-G-M</u> | |
| <u>1530</u> | <u>6.0</u> | <u>B</u> | <u>7.7</u> | <u>8.0</u> | <u>32.9</u> | <u>18.4</u> | <u>N</u> | ↓ | <u>TSS only</u> | <u>Full suite</u> | <u>OA-RW-09-G-B</u> | |
| | | | | | | | | | <u>TSS only</u> | <u>Full suite</u> | | |
| | | | | | | | | | <u>TSS only</u> | <u>Full suite</u> | | |
| | | | | | | | | | <u>TSS only</u> | <u>Full suite</u> | | |
| | | | | | | | | | <u>TSS only</u> | <u>Full suite</u> | | |
| QA/QC Samples Collected: <u>Y/N</u> | | Field duplicate (5% of project) / Field blank (1 during monitoring event) / Rinsate blank (1 during monitoring event) | | | | | | | <u>TSS only</u> | <u>Full suite</u> | | |
| Comments (include photographs taken, if any): <u>No floating material, color, odor, or sheen.</u> | | | | | | | | | | | | |

- Notes:
- Field measurements will be made in triplicate on 5 percent of measurements to ensure project DQOs are met. These measurements will be recorded on the next page.
 - Description should include suspended or floating material, color, odor, or sheen.

Water Quality Sample Form

| Project Name: <i>TMDL Compliance WQ</i> | | Project Number: <i>141205-01</i> | | Date: <i>11/2/14</i> | | Time: <i>1450</i> | | | | |
|--|-------------|--|------------|---------------------------------------|----------------|---------------------------------------|-----------------------------------|--|----------------------------|---------------------|
| Station ID: <i>CM-RW-10</i> | | Latitude/Northing: <i>33.71925</i> | | Longitude/Easting: <i>-118, 27904</i> | | Water Depth (ft): <i>37.5 (11.4m)</i> | | | | |
| Weather Conditions: <i>Sunny w/ few clouds</i> | | | | | | Field Personnel: <i>CO, KM</i> | | | | |
| Wind Speed and Direction (see Beaufort Scale): <i>3-7 mph from S</i> | | | | | | | | | | |
| Biological Activity (e.g., presence of fish, birds, macrophytes, phytoplankton): <i>1 Brown pelican, 1 western gull, 1 heermann gull</i> | | | | | | | | | | |
| Description of In-water activities (e.g., recreational boating, active discharges): <i>occasional recreational vessels</i> | | | | | | | | | | |
| In Situ Field Parameters ¹ and Water Sample Collection | | | | | | | | | | |
| Time | Depth (m) | Surface (S), Mid-depth (M), or Bottom (B) | DO (mg/L) | pH | Salinity (ppt) | Temp (°C) | Chemistry Sample Collected? (Y/N) | Physical Description of Sample ² | Analytes (circle one) | Sample ID |
| <i>1452</i> | <i>1</i> | <i>S</i> | <i>6.8</i> | <i>7.8</i> | <i>32.9</i> | <i>19.8</i> | <i>Y</i> | <i>see comments</i> | TSS only <u>Full suite</u> | <i>CM-RW-10-G-S</i> |
| <i>1455</i> | <i>5.7</i> | <i>M</i> | <i>6.6</i> | <i>7.8</i> | <i>33.1</i> | <i>19.6</i> | <i>Y</i> | <i>below</i> | <u>TSS only</u> Full suite | <i>CM-RW-10-G-M</i> |
| <i>1456</i> | <i>10.4</i> | <i>B</i> | <i>6.2</i> | <i>7.8</i> | <i>33.2</i> | <i>19.2</i> | <i>Y</i> | <i>↓</i> | <u>TSS only</u> Full suite | <i>CM-RW-10-G-B</i> |
| | | | | | | | | | TSS only Full suite | |
| | | | | | | | | | TSS only Full suite | |
| | | | | | | | | | TSS only Full suite | |
| | | | | | | | | | TSS only Full suite | |
| QA/QC Samples Collected <i>Y/N</i> | | Field duplicate (5% of project) / <u>Field blank (1 during monitoring event)</u> / Rinsate blank (1 during monitoring event) | | | | | | TSS only Full suite | | |
| Comments (include photographs taken, if any): | | | | | | | | <i>No particulates, color, odor, or sheen collected field blank @ 1515</i> | | |

- Notes:
- Field measurements will be made in triplicate on 5 percent of measurements to ensure project DQOs are met. These measurements will be recorded on the next page.
 - Description should include suspended or floating material, color, odor, or sheen.

Water Quality Sample Form

| | | | | | | | |
|--|------------------------------------|----------------------------------|--------------------------------------|----------------------|------------------------------------|-------------------|--|
| Project Name: <i>+MDL Compliance WQ</i> | | Project Number: <i>141205-01</i> | | Date: <i>11/2/14</i> | | Time: <i>1530</i> | |
| Station ID: <i>CB-RW-11</i> | Latitude/Northing: <i>33.71180</i> | | Longitude/Easting: <i>-118.28106</i> | | Water Depth (ft): <i>12 (3.7m)</i> | | |
| Weather Conditions: <i>Sunny w/ few clouds</i> | | | | | Field Personnel: <i>CO, KM</i> | | |
| Wind Speed and Direction (see Beaufort Scale): <i>3-7 mph from south</i> | | | | | | | |
| Biological Activity (e.g., presence of fish, birds, macrophytes, phytoplankton): <i>2 brown pelicans, 1 western gull</i> | | | | | | | |
| Description of In-water activities (e.g., recreational boating, active discharges): <i>wind surfer</i> | | | | | | | |

In Situ Field Parameters¹ and Water Sample Collection

| Time | Depth (m) | Surface (S), Mid-depth (M), or Bottom (B) | DO (mg/L) | pH | Salinity (ppt) | Temp (°C) | Chemistry Sample Collected? (Y/N) | Physical Description of Sample ² | Analytes (circle one) | Sample ID | |
|--|------------|---|------------|------------|----------------|-------------|-----------------------------------|---|----------------------------|---------------------|--|
| <i>1533</i> | <i>1</i> | <i>S</i> | <i>7.5</i> | <i>7.9</i> | <i>33.0</i> | <i>19.7</i> | <i>Y</i> | <i>see comment</i> | TSS only <u>Full suite</u> | <i>CB-RW-11-G-S</i> | |
| <i>1534</i> | <i>1.8</i> | <i>M</i> | <i>7.3</i> | <i>7.9</i> | <i>33.0</i> | <i>19.7</i> | <i>Y</i> | <i>below</i> | <u>TSS only</u> Full suite | <i>CB-RW-11-G-M</i> | |
| <i>1534</i> | <i>2.7</i> | <i>B</i> | <i>7.2</i> | <i>7.9</i> | <i>33.0</i> | <i>19.7</i> | <i>Y</i> | <i>↓</i> | <u>TSS only</u> Full suite | <i>CB-RW-11-G-B</i> | |
| | | | | | | | | | TSS only Full suite | | |
| | | | | | | | | | TSS only Full suite | | |
| | | | | | | | | | TSS only Full suite | | |
| | | | | | | | | | TSS only Full suite | | |
| QA/QC Samples Collected: <u>Y</u> <u>N</u> | | Field duplicate (5% of project) / Field blank (1 during monitoring event) / Rinsate blank (1 during monitoring event) | | | | | | | TSS only Full suite | | |

Comments (include photographs taken, if any): *Station located w/in no motorized vessel zone. Adjusted location slightly outside zone as close to coordinates as possible. NO particulates, color, odor, or sheen.*

- Notes:
- Field measurements will be made in triplicate on 5 percent of measurements to ensure project DQOs are met. These measurements will be recorded on the next page.
 - Description should include suspended or floating material, color, odor, or sheen.



Water Quality Sample Form

| Project Name: TMDL Compliance WQ | | | Project Number: 141205-00.01 ⁸⁶ | | | Date: 11.2.14 | | | Time: 0845 / 1035 | | |
|---|-----------|---|--|-----|--------------------------------|---------------|-----------------------------------|---|-------------------------|------------|----------------|
| Station ID: 1B-RW-12 | | Latitude/Northing: 33.76842° | | | Longitude/Easting: -118.22841° | | | Water Depth (ft): 43.0 / 54.0 | | | |
| Weather Conditions: Sunny, 1035 33.76843° | | | | | | -118.22800° | | | Field Personnel: BG, MA | | |
| Wind Speed and Direction (see Beaufort Scale): 1-3 mph from E | | | | | | | | | | | |
| Biological Activity (e.g., presence of fish, birds, macrophytes, phytoplankton): few birds, 1 sea lion | | | | | | | | | | | |
| Description of In-water activities (e.g., recreational boating, active discharges): none | | | | | | | | | | | |
| In Situ Field Parameters ¹ and Water Sample Collection | | | | | | | | | | | |
| Time | Depth (m) | Surface (S), Mid-depth (M), or Bottom (B) | DO (mg/L) | pH | Salinity (ppt) | Temp (°C) | Chemistry Sample Collected? (Y/N) | Physical Description of Sample ² | Analytes (circle one) | | Sample ID |
| 1033 | .75 | S | 7.3 | 7.9 | 32.3 | 18.9 | Y | Trace Particulates | TSS only | Full suite | 1B-RW-12-G-S |
| 1035 | 4.83 | M | 7.5 | 8.0 | 32.6 | 18.8 | N | ↓ | TSS only | Full suite | 1B-RW-12-G-M |
| 1040 | 16.0 | B | 7.5 | 7.9 | 32.7 | 18.4 | N | ↓ | TSS only | Full suite | 1B-RW-12-G-B |
| | | | | | | | | | TSS only | Full suite | |
| | | | | | | | | | TSS only | Full suite | |
| | | | | | | | | | TSS only | Full suite | |
| | | | | | | | | | TSS only | Full suite | |
| QA/QC Samples Collected: Y/N | | Field duplicate (5% of project) / Field blank (1 during monitoring event) / Rinsate blank (1 during monitoring event) | | | | | | TSS only | | Full suite | 1B-RW-1012-G-M |
| Comments (include photographs taken, if any): No floating material, color, odor, or sheen unless noted. | | | | | | | | | | | |

16.5 m
8.3

- Notes:
- Field measurements will be made in triplicate on 5 percent of measurements to ensure project DQOs are met. These measurements will be recorded on the next page.
 - Description should include suspended or floating material, color, odor, or sheen.

Water Quality Sample Form

| Project Name: <u>TMDL Compliance WQ</u> | | | Project Number: <u>141205-01</u> | | | Date: <u>11.2.14</u> | | Time: <u>1105</u> | | | |
|---|-------------|---|----------------------------------|------------|---------------------------------------|----------------------|-----------------------------------|---|----------------------------|----------------------------|---------------------|
| Station ID: <u>IB-RW-13</u> | | Latitude/Northing: <u>33.75354°</u> | | | Longitude/Easting: <u>-118.21624°</u> | | | Water Depth (ft): <u>79.0</u> | | | |
| Weather Conditions: <u>Sunny</u> | | | | | | | | Field Personnel: <u>BG, MA</u> | | | |
| Wind Speed and Direction (see Beaufort Scale): <u>1-3 mph from SE</u> | | | | | | | | | | | |
| Biological Activity (e.g., presence of fish, birds, macrophytes, phytoplankton): <u>none</u> | | | | | | | | | | | |
| Description of In-water activities (e.g., recreational boating, active discharges): <u>none</u> | | | | | | | | | | | |
| In Situ Field Parameters ¹ and Water Sample Collection | | | | | | | | | | | |
| Time | Depth (m) | Surface (S), Mid-depth (M), or Bottom (B) | DO (mg/L) | pH | Salinity (ppt) | Temp (°C) | Chemistry Sample Collected? (Y/N) | Physical Description of Sample ² | Analytes (circle one) | Sample ID | |
| <u>1105</u> | <u>.75</u> | <u>S</u> | <u>7.8</u> | <u>8.0</u> | <u>32.7</u> | <u>18.6</u> | <u>Y</u> | <u>v.f. trace particulates</u> | TSS only <u>Full suite</u> | <u>IB-RW-13-G-S</u> | |
| <u>1110</u> | <u>12.0</u> | <u>M</u> | <u>7.7</u> | <u>8.0</u> | <u>32.8</u> | <u>18.5</u> | <u>N</u> | ↓ | <u>TSS only</u> Full suite | <u>IB-RW-13-G-M</u> | |
| <u>1115</u> | <u>23.0</u> | <u>B</u> | <u>7.8</u> | <u>8.0</u> | <u>32.8</u> | <u>18.1</u> | <u>Y</u> | ↓ | <u>TSS only</u> Full suite | <u>IB-RW-13-G-B</u> | |
| | | | | | | | | | TSS only Full suite | | |
| | | | | | | | | | TSS only Full suite | | |
| | | | | | | | | | TSS only Full suite | | |
| | | | | | | | | | TSS only Full suite | | |
| QA/QC Samples Collected: <u>Y</u> N | | Field duplicate (5% of project) / Field blank (1 during monitoring event) / Rinsate blank (1 during monitoring event) | | | | | | <u>Lab Dup</u> | | <u>TSS only</u> Full suite | <u>IB-RW-13-G-S</u> |
| Comments (include photographs taken, if any): <u>No color, odor, or sheen.</u> | | | | | | | | | | | |

24 m

- Notes:
- Field measurements will be made in triplicate on 5 percent of measurements to ensure project DQOs are met. These measurements will be recorded on the next page.
 - Description should include suspended or floating material, color, odor, or sheen.

Water Quality Sample Form

| Project Name: TMDL Compliance WQ | | | Project Number: 141205-01 | | | Date: 11.2.14 | | | Time: 1150 | | | |
|--|-----------|---|---------------------------|-----|--------------------------------|---------------|-----------------------------------|---|-----------------------|------------|------------------------|--|
| Station ID: IB-RW-14 | | Latitude/Northing: 33.74872° | | | Longitude/Easting: -118.23128° | | | Water Depth (ft): 51.0 | | | 15.6 m | |
| Weather Conditions: Sunny | | | | | | | | Field Personnel: BG, MA | | | | |
| Wind Speed and Direction (see Beaufort Scale): 3-7 mph from S | | | | | | | | | | | | |
| Biological Activity (e.g., presence of fish, birds, macrophytes, phytoplankton): none | | | | | | | | | | | | |
| Description of In-water activities (e.g., recreational boating, active discharges): none | | | | | | | | | | | | |
| In Situ Field Parameters ¹ and Water Sample Collection | | | | | | | | | | | | |
| Time | Depth (m) | Surface (S), Mid-depth (M), or Bottom (B) | DO (mg/L) | pH | Salinity (ppt) | Temp (°C) | Chemistry Sample Collected? (Y/N) | Physical Description of Sample ² | Analytes (circle one) | | Sample ID ³ | |
| 1150 | .75 | S | 7.6 | 8.0 | 32.8 | 19.2 | Y | vf. trace particulates | TSS only | Full suite | IB-RW-14-G-S | |
| 1152 | .75 | S | 7.6 | 8.0 | 32.8 | 19.2 | N | ↓ | TSS only | Full suite | | |
| 1153 | .75 | S | 7.6 | 8.0 | 32.8 | 19.2 | N | | TSS only | Full suite | | |
| 1155 | 7.8 | M | 7.5 | 8.0 | 32.8 | 18.7 | Y | | TSS only | Full suite | IB-RW-14-G-M | |
| 1200 | 15.0 | B | 7.6 | 8.0 | 32.8 | 18.4 | Y | | TSS only | Full suite | IB-RW-14-G-B | |
| | | | | | | | | | TSS only | Full suite | | |
| | | | | | | | | | TSS only | Full suite | | |
| QA/QC Samples Collected: Y/N | | Field duplicate (5% of project) / Field blank (1 during monitoring event) / Rinsate blank (1 during monitoring event) | | | | | | | TSS only | | Full suite | |
| Comments (include photographs taken, if any): No color, odor, or sheen. | | | | | | | | | | | | |

- Notes:
- Field measurements will be made in triplicate on 5 percent of measurements to ensure project DQOs are met. These measurements will be recorded on the next page.
 - Description should include suspended or floating material, color, odor, or sheen.

DQO Measurements

| Project Name: <u>TMDL Compliance WQ</u> | | | Project Number: <u>141205-01</u> | | | | |
|---|---|-------------------|----------------------------------|------------|----------------------|--------------|----------|
| Station ID: <u>IB-RW-14</u> | | Time: <u>1150</u> | | | Date: <u>11.2.14</u> | | |
| In Situ Field Parameters ¹ | | | | | | | |
| Time | Surface (S), Mid-depth (M), or Bottom (B) | Depth (m) | DO (mg/L) | pH (units) | Salinity (ppt) | Temp (°C) | Comments |
| <u>1150</u> | <u>S</u> | <u>.75</u> | <u>7.4</u> | <u>8.0</u> | <u>32.8</u> | <u>19.2</u> | |
| <u>1152</u> | <u>S</u> | <u>.75</u> | <u>7.6</u> | <u>8.0</u> | <u>32.8</u> | <u>19.2</u> | |
| <u>1153</u> | <u>S</u> | <u>.75</u> | <u>7.6</u> | <u>8.0</u> | <u>32.8</u> | <u>19.2</u> | |
| Average | | <u>.75</u> | <u>7.6</u> | <u>8.0</u> | <u>32.8</u> | <u>19.2</u> | |
| Difference between max and min | | <u>0</u> | <u>0</u> | <u>0</u> | <u>0</u> | <u>0</u> | |
| RPD | | <u>0</u> | <u>0</u> | <u>0</u> | <u>0</u> | <u>0</u> | |
| Precision | | ± 0.1 | 5 percent | ± 0.2 | ± 0.2 | ± 0.5 °C | |
| DQO Met? (Y/N) ² | | <u>Y</u> | <u>Y</u> | <u>Y</u> | <u>Y</u> | <u>Y</u> | |
| Time | Surface (S), Mid-depth (M), or Bottom (B) | Depth (m) | DO (mg/L) | pH | Salinity (ppt) | Temp (°C) | Comments |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| Average | | | | | | | |
| Difference between max and min | | | | | | | |
| RPD | | | | | | | |
| Precision | | ± 0.1 | 5 percent | ± 0.2 | ± 0.2 | ± 0.5 °C | |
| DQO Met? (Y/N) ² | | | | | | | |
| Comments: | | | | | | | |

Notes:

- Field measurements will be made in triplicate on 5 percent of measurements to ensure project DQOs are met. Each result will be recorded along with the average of the three results, the difference between the largest and smallest result, and the percent difference between the largest and smallest result. The percent difference will be calculated as follows:

$$\text{Percent difference} = 100 * (\text{largest} - \text{smallest}) / \text{average}$$

Triplicate measurements, the average of the results, and percent difference will be recorded on the field data sheet. The percent difference, as appropriate, will be compared against the precision criteria established for field measurements in Table 7.

- If no, write corrective actions taken in the comments box (e.g., re-calibrated instrument, etc.) and re-measure.

Water Quality Sample Form

| Project Name: <u>TMDL compliance WQ</u> | | Project Number: <u>141205-01</u> | | Date: <u>11.2.14</u> | | Time: <u>1230</u> | | | | |
|---|-----------|---|-----------|---------------------------------------|----------------|---|-----------------------------------|---|----------------------------|--------------|
| Station ID: <u>IB-RW-15</u> | | Latitude/Northing: <u>33.74200°</u> | | Longitude/Easting: <u>-118.20147°</u> | | Water Depth (ft): <u>16.5</u> 20.3 m | | | | |
| Weather Conditions: <u>Sunny</u> | | | | | | Field Personnel: <u>BG, MA</u> | | | | |
| Wind Speed and Direction (see Beaufort Scale): <u>3-7 mph from SW</u> | | | | | | | | | | |
| Biological Activity (e.g., presence of fish, birds, macrophytes, phytoplankton): <u>None</u> | | | | | | | | | | |
| Description of In-water activities (e.g., recreational boating, active discharges): <u>one vessel</u> | | | | | | | | | | |
| In Situ Field Parameters ¹ and Water Sample Collection | | | | | | | | | | |
| Time | Depth (m) | Surface (S), Mid-depth (M), or Bottom (B) | DO (mg/L) | pH | Salinity (ppt) | Temp (°C) | Chemistry Sample Collected? (Y/N) | Physical Description of Sample ² | Analytes (circle one) | Sample ID |
| 1230 | 7.5 | S | 8.2 | 8.0 | 32.7 | 19.0 | Y | vt trace particulates | TSS only <u>Full suite</u> | IB-RW-15-6-S |
| 1235 | 10.0 | M | 8.0 | 8.0 | 32.8 | 18.6 | Y | ↓ | <u>TSS only</u> Full suite | IB-RW-15-6-M |
| 1240 | 19.5 | B | 7.3 | 8.0 | 32.9 | 18.1 | Y | ↓ | <u>TSS only</u> Full suite | IB-RW-15-6-B |
| | | | | | | | | | TSS only Full suite | |
| | | | | | | | | | TSS only Full suite | |
| | | | | | | | | | TSS only Full suite | |
| | | | | | | | | | TSS only Full suite | |
| QA/QC Samples Collected: <u>Y/N</u> | | Field duplicate (5% of project) / Field blank (1 during monitoring event) / Rinsate blank (1 during monitoring event) | | | | | | TSS only Full suite | | |
| Comments (include photographs taken, if any): <u>No color, odor, or sheen</u> | | | | | | | | | | |

- Notes:
- Field measurements will be made in triplicate on 5 percent of measurements to ensure project DQOs are met. These measurements will be recorded on the next page.
 - Description should include suspended or floating material, color, odor, or sheen.

Water Quality Sample Form

| Project Name: TMDL Compliance WQ | | | Project Number: 141205-01 | | | Date: 11.2.14 | | Time: 1410 | | | |
|--|-----------|---|----------------------------------|-----|---------------------------------------|----------------------|-----------------------------------|---|----------------------------|--------------|--|
| Station ID: OB-RW-14 | | Latitude/Northing: 33.73133° | | | Longitude/Easting: -118.22414° | | | Water Depth (ft): 43.0 | | | |
| Weather Conditions: Sunny | | | | | | | | Field Personnel: BG, MA | | | |
| Wind Speed and Direction (see Beaufort Scale): 8-12 mph from SW | | | | | | | | | | | |
| Biological Activity (e.g., presence of fish, birds, macrophytes, phytoplankton): none | | | | | | | | | | | |
| Description of In-water activities (e.g., recreational boating, active discharges): none | | | | | | | | | | | |
| In Situ Field Parameters ¹ and Water Sample Collection | | | | | | | | | | | |
| Time | Depth (m) | Surface (S), Mid-depth (M), or Bottom (B) | DO (mg/L) | pH | Salinity (ppt) | Temp (°C) | Chemistry Sample Collected? (Y/N) | Physical Description of Sample ² | Analytes (circle one) | Sample ID | |
| 1410 | 7.5 | S | 8.2 | 8.0 | 32.8 | 18.8 | Y | see comment | TSS only <u>Full suite</u> | OB-RW-14-G-S | |
| 1415 | 6.5 | M | 8.1 | 8.0 | 32.9 | 18.6 | Y | ↓ | <u>TSS only</u> Full suite | OB-RW-14-G-M | |
| 1420 | 12.4 | B | 7.8 | 8.0 | 32.9 | 18.5 | Y | ↓ | <u>TSS only</u> Full suite | OB-RW-14-G-B | |
| | | | | | | | | | TSS only Full suite | | |
| | | | | | | | | | TSS only Full suite | | |
| | | | | | | | | | TSS only Full suite | | |
| | | | | | | | | | TSS only Full suite | | |
| QA/QC Samples Collected: Y/N | | Field duplicate (5% of project) / Field blank (1 during monitoring event) / Rinsate blank (1 during monitoring event) | | | | | | | TSS only Full suite | | |
| Comments (include photographs taken, if any): No floating material, color, odor, or sheen | | | | | | | | | | | |

- Notes:
- Field measurements will be made in triplicate on 5 percent of measurements to ensure project DQOs are met. These measurements will be recorded on the next page.
 - Description should include suspended or floating material, color, odor, or sheen.

Water Quality Sample Form

| Project Name: <u>TMDL Compliance WQ</u> | | | Project Number: <u>141205-01</u> | | | Date: <u>11.2.14</u> | | Time: <u>1325</u> | | | |
|--|-----------|--|----------------------------------|-----|---------------------------------------|----------------------|-----------------------------------|---|----------------------------|--------------|--------------|
| Station ID: <u>OB-RW-17</u> | | Latitude/Northing: <u>33.72799°</u> | | | Longitude/Easting: <u>-118.19555°</u> | | | Water Depth (ft): <u>09.0</u> | | | |
| Weather Conditions: <u>Sunny</u> | | | | | | | | Field Personnel: <u>BG, MA</u> | | | |
| Wind Speed and Direction (see Beaufort Scale): <u>8-12 mph from SW</u> | | | | | | | | | | | |
| Biological Activity (e.g., presence of fish, birds, macrophytes, phytoplankton): <u>few birds</u> | | | | | | | | | | | |
| Description of In-water activities (e.g., recreational boating, active discharges): <u>frequent vessels</u> | | | | | | | | | | | |
| In Situ Field Parameters ¹ and Water Sample Collection | | | | | | | | | | | |
| Time | Depth (m) | Surface (S), Mid-depth (M), or Bottom (B) | DO (mg/L) | pH | Salinity (ppt) | Temp (°C) | Chemistry Sample Collected? (Y/N) | Physical Description of Sample ² | Analytes (circle one) | Sample ID | |
| 1325 | .75 | S | 8.2 | 8.0 | 32.4 | 18.7 | Y | see comment | TSS only <u>Full suite</u> | OB-RW-17-G-S | |
| 1335 | 10.5 | M | 7.9 | 8.0 | 32.9 | 18.5 | N | ↓ | <u>TSS only</u> Full suite | OB-RW-17-G-M | |
| 1346 | 20.0 | B | 7.7 | 8.0 | 32.9 | N | <u>TSS only</u> Full suite | | OB-RW-17-G-B | | |
| | | | | | | | | | TSS only Full suite | | |
| | | | | | | | | | TSS only Full suite | | |
| | | | | | | | | | TSS only Full suite | | |
| | | | | | | | | | TSS only Full suite | | |
| QA/QC Samples Collected: <u>Y</u> <u>N</u> | | Field duplicate (5% of project) / Field blank (1 during monitoring event) / Rinsate blank (1 during monitoring event) <u>Lab Dup</u> | | | | | | | TSS only <u>Full suite</u> | | OB-RW-17-G-S |
| Comments (include photographs taken, if any): <u>Slightly moved station to location consistent w/ map.</u> <u>No floating material, color, odor, or sheen.</u> | | | | | | | | | | | |

- Notes:
- Field measurements will be made in triplicate on 5 percent of measurements to ensure project DQOs are met. These measurements will be recorded on the next page.
 - Description should include suspended or floating material, color, odor, or sheen.

Water Quality Sample Form

| Project Name: <i>TMDL compliance WQ</i> | | | Project Number: <i>141205-01</i> | | | Date: <i>4/2/14</i> | | | Time: <i>11:39</i> | | |
|--|-----------|---|----------------------------------|-------------|---------------------------------------|---------------------|-----------------------------------|---|-----------------------------------|--------------------|-----------|
| Station ID: <i>SP-RW-18</i> | | Latitude/Northing: <i>33.15383222</i> | | | Longitude/Easting: <i>118.1813321</i> | | | Water Depth (ft): <i>39.6</i> | | | |
| Weather Conditions: <i>SUNNY, WARM</i> | | | | | | | | Field Personnel: <i>RW, TG, ND</i> | | | |
| Wind Speed and Direction (see Beaufort Scale): <i>2-5 mph SE</i> | | | | | | | | | | | |
| Biological Activity (e.g., presence of fish, birds, macrophytes, phytoplankton): <i>isolated birds</i> | | | | | | | | | | | |
| Description of In-water activities (e.g., recreational boating, active discharges): <i>some vessel traffic</i> | | | | | | | | | | | |
| In Situ Field Parameters ¹ and Water Sample Collection | | | | | | | | | | | |
| Time | Depth (m) | Surface (S), Mid-depth (M), or Bottom (B) | DO (mg/L) | pH | Salinity (ppt) | Temp (°C) | Chemistry Sample Collected? (Y/N) | Physical Description of Sample ² | Analytes (circle one) | | Sample ID |
| <i>11:35</i> | <i>1</i> | <i>S</i> | <i>6.77</i> | <i>8.21</i> | <i>33.62</i> | <i>19.43</i> | | | <i>TSS only</i> <i>Full suite</i> | <i>SP-RW-18-G-</i> | |
| <i>11:38</i> | | | | | | | | | <i>TSS only</i> <i>Full suite</i> | | |
| | | | | | | | | | <i>TSS only</i> <i>Full suite</i> | | |
| | | | | | | | | | <i>TSS only</i> <i>Full suite</i> | | |
| | | | | | | | | | <i>TSS only</i> <i>Full suite</i> | | |
| | | | | | | | | | <i>TSS only</i> <i>Full suite</i> | | |
| | | | | | | | | | <i>TSS only</i> <i>Full suite</i> | | |
| QA/QC Samples Collected: Y / N | | Field duplicate (5% of project) / Field blank (1 during monitoring event) / Rinsate blank (1 during monitoring event) | | | | | | | <i>TSS only</i> <i>Full suite</i> | | |
| Comments (include photographs taken, if any): | | | | | | | | | | | |

Notes:

- Field measurements will be made in triplicate on 5 percent of measurements to ensure project DQOs are met. These measurements will be recorded on the next page.
- Description should include suspended or floating material, color, odor, or sheen.

Water Quality Sample Form

| Project Name: <i>TMDL Compliance WQ</i> | | | Project Number: <i>141205-01.10</i> | | | Date: <i>11-2-14</i> | | Time: <i>10:47</i> | | |
|--|-----------|---|-------------------------------------|-------------|--------------------------------------|----------------------|-----------------------------------|---|----------------------------|-----------------------------|
| Station ID: <i>LE-RW-21</i> | | Latitude/Northing: <i>33.75644363</i> | | | Longitude/Easting: <i>1181933943</i> | | | Water Depth (ft): <i>4</i> | | |
| Weather Conditions: <i>Sunny, warm</i> | | | | | | | | Field Personnel: <i>NJD, TVG, RW</i> | | |
| Wind Speed and Direction (see Beaufort Scale): <i>1-3 mph SE</i> | | | | | | | | | | |
| Biological Activity (e.g., presence of fish, birds, macrophytes, phytoplankton): <i>Few birds.</i> | | | | | | | | | | |
| Description of In-water activities (e.g., recreational boating, active discharges): <i>Lots of vessels transiting through harbor entrance</i> | | | | | | | | | | |
| In Situ Field Parameters ¹ and Water Sample Collection | | | | | | | | | | |
| Time | Depth (m) | Surface (S), Mid-depth (M), or Bottom (B) | DO (mg/L) | pH | Salinity (ppt) | Temp (°C) | Chemistry Sample Collected? (Y/N) | Physical Description of Sample ² | Analytes (circle one) | Sample ID |
| <i>10:47</i> | <i>1</i> | <i>S</i> | <i>4.25</i> | <i>8.00</i> | <i>33.91</i> | <i>19.91</i> | <i>Y</i> | <i>Amber water</i> | TSS only <u>Full suite</u> | <i>LE-RW-21-G-S-2011102</i> |
| | | | | | | | | | TSS only Full suite | <i>LE-RW-21-G-M-2011102</i> |
| | | | | | | | | | TSS only Full suite | <i>LE-RW-21-G-B-2011102</i> |
| | | | | | | | | | TSS only Full suite | |
| | | | | | | | | | TSS only Full suite | |
| | | | | | | | | | TSS only Full suite | |
| | | | | | | | | | TSS only Full suite | |
| QA/QC Samples Collected: Y/(N) | | Field duplicate (5% of project) / Field blank (1 during monitoring event) / Rinsate blank (1 during monitoring event) | | | | | | TSS only Full suite | | |
| Comments (include photographs taken, if any): <i>Lots of detritus/trash floating on water. New (calibrated) YSI. Very shallow site. Only took readings 1m down</i> | | | | | | | | | | |

Notes:

1. Field measurements will be made in triplicate on 5 percent of measurements to ensure project DQOs are met. These measurements will be recorded on the next page.
2. Description should include suspended or floating material, color, odor, or sheen.



Water Quality Sample Form

| Project Name: TMDL Compliance WQ | | | Project Number: 141205-01.01 | | | Date: 11.2.14 | | Time: 08:35 | | | |
|--|-----------|---|------------------------------|------|--------------------------------|---------------|-----------------------------------|---|----------------------------|-----------------------|--|
| Station ID: LE-RW-22 | | Latitude/Northing: 33.7613° | | | Longitude/Easting: -118.202111 | | | Water Depth (ft): 6.9 | | | |
| Weather Conditions: Sunny, warm | | | | | | | | Field Personnel: ND, TG, RW | | | |
| Wind Speed and Direction (see Beaufort Scale): 1-3mph SE | | | | | | | | | | | |
| Biological Activity (e.g., presence of fish, birds, macrophytes, phytoplankton): Some birds. | | | | | | | | | | | |
| Description of In-water activities (e.g., recreational boating, active discharges): Active vessels transiting through Port of Long Beach | | | | | | | | | | | |
| In Situ Field Parameters ¹ and Water Sample Collection | | | | | | | | | | | |
| Time | Depth (m) | Surface (S), Mid-depth (M), or Bottom (B) | DO (mg/L) | pH | Salinity (ppt) | Temp (°C) | Chemistry Sample Collected? (Y/N) | Physical Description of Sample ² | Analytes (circle one) | Sample ID | |
| 08:42 | 1m | S | 3.94 | 7.87 | 32.2 | 19.09 | Y | Amber water suspended sed. tridge partic. | TSS only <u>Full suite</u> | LE-RW-22-G-S-20141102 | |
| 08:56 | 1.5m | M | 3.96 | 7.87 | 32.26 | 19.09 | N | ↓ | <u>TSS only</u> Full suite | LE-RW-22-G-M-20141102 | |
| 08:59 | 1.7m | B | 4.02 | 7.87 | 32.26 | 19.08 | N | ↓ | <u>TSS only</u> Full suite | LE-RW-22-G-B-20141102 | |
| | | | | | | | | | TSS only Full suite | | |
| | | | | | | | | | TSS only Full suite | | |
| | | | | | | | | | TSS only Full suite | | |
| | | | | | | | | | TSS only Full suite | | |
| QA/QC Samples Collected: Y <u>N</u> | | Field duplicate (5% of project) / Field blank (1 during monitoring event) / Rinsate blank (1 during monitoring event) | | | | | | | TSS only Full suite | | |
| Comments (include photographs taken, if any): High abundance of floating debris rafts. | | | | | | | | | | | |

- Notes:
- Field measurements will be made in triplicate on 5 percent of measurements to ensure project DQOs are met. These measurements will be recorded on the next page.
 - Description should include suspended or floating material, color, odor, or sheen.



Water Quality Sample Form

| Project Name: TMDL Compliance WQ | | | Project Number: 141205-01.01 | | | Date: 2.24.15 | | Time: 0857 | | |
|--|-----------|---|------------------------------|-------------------------------|----------------|---------------|-----------------------------------|---|----------------------------|--|
| Station ID: CS-RW-01 | | Latitude/Northing: 33.77486 | | Longitude/Easting: -118.24521 | | | Water Depth (ft): 18.5 (m): 5.6 | | | |
| Weather Conditions: Sunny | | | | | | | Field Personnel: BG, BA | | | |
| Wind Speed and Direction (see Beaufort Scale): < 1 mph From NW | | | | | | | Recorded By: BG | | | |
| Biological Activity (e.g., presence of fish, birds, macrophytes, phytoplankton): None | | | | | | | | | | |
| Description of In-water activities (e.g., recreational boating, active discharges): Manson barge/crane activity (not dredging) | | | | | | | | | | |
| In Situ Field Parameters ¹ and Water Sample Collection | | | | | | | | | | |
| Time | Depth (m) | Surface (S), Mid-depth (M), or Bottom (B) | DO (mg/L) | pH | Salinity (ppt) | Temp (°C) | Chemistry Sample Collected? (Y/N) | Physical Description of Sample ² | Analytes (circle one) | Sample ID |
| 0857 | 1 | S | 5.1 | 7.9 | 28.9 | 17.3 | Y | See Notes | TSS only <u>Full suite</u> | CS-RW-01-G-S |
| 0857 | 2.8 | M | 6.3 | 8.1 | 32.9 | 17.3 | Y | ↓ | <u>TSS only</u> Full suite | CS-RW-01- H ^{BG} G-M |
| 0858 | 5 | B | 6.7 | 8.1 | 33.2 | 17.2 | Y | | <u>TSS only</u> Full suite | CS-RW-01- B ^{BG} G-B |
| | | | | | | | | | TSS only Full suite | |
| | | | | | | | | | TSS only Full suite | |
| | | | | | | | | | TSS only Full suite | |
| | | | | | | | | | TSS only Full suite | |
| QA/QC Samples Collected: Y/N | | Field duplicate (5% of project) / Field blank (1 during monitoring event) / Rinsate blank (1 during monitoring event) | | | | | | <u>TSS only</u> Full suite | | CS-RW-1001-G-S |
| Comments (include photographs taken, if any): No floating material, color, odor, or sheen Slightly to off target location due to barge (20 ft) | | | | | | | | | | |

- Notes:
- Field measurements will be made in triplicate on 5 percent of measurements to ensure project DQOs are met. These measurements will be recorded on the next page.
 - Description should include suspended or floating material, color, odor, or sheen.

Water Quality Sample Form

| Project Name: <u>TMDL Compliance WQ</u> | | | Project Number: <u>141205-01</u> | | | Date: <u>2.24.15</u> | | | Time: <u>0928</u> | | | |
|--|------------|---|----------------------------------|------------|--------------------------------------|----------------------|-----------------------------------|--|-----------------------|-------------------|---------------------|--|
| Station ID: <u>1A-RW-02</u> | | Latitude/Northing: <u>33.76290</u> | | | Longitude/Easting: <u>-118.25490</u> | | | Water Depth (ft): <u>57.2</u> (m): <u>11.5</u> | | | | |
| Weather Conditions: <u>Sunny</u> | | | | | | | | Field Personnel: <u>BG, BA</u> | | | | |
| Wind Speed and Direction (see Beaufort Scale): <u>1-3 mph from NW</u> | | | | | | | | Recorded By: <u>BG</u> | | | | |
| Biological Activity (e.g., presence of fish, birds, macrophytes, phytoplankton): <u>Few birds</u> | | | | | | | | | | | | |
| Description of In-water activities (e.g., recreational boating, active discharges): <u>Police vessel and towed barge</u> | | | | | | | | | | | | |
| In Situ Field Parameters ¹ and Water Sample Collection | | | | | | | | | | | | |
| Time | Depth (m) | Surface (S), Mid-depth (M), or Bottom (B) | DO (mg/L) | pH | Salinity (ppt) | Temp (°C) | Chemistry Sample Collected? (Y/N) | Physical Description of Sample ² | Analytes (circle one) | | Sample ID | |
| <u>0928</u> | <u>1</u> | <u>S</u> | <u>7.1</u> | <u>8.0</u> | <u>32.5</u> | <u>17.4</u> | <u>Y</u> | <u>See comment</u> | <u>TSS only</u> | <u>Full suite</u> | <u>1A-RW-02-G-S</u> | |
| <u>0932</u> | <u>5.8</u> | <u>M</u> | <u>7.3</u> | <u>8.1</u> | <u>33.1</u> | <u>17.2</u> | <u>Y</u> | ↓ | <u>TSS only</u> | <u>Full suite</u> | <u>1A-RW-02-G-M</u> | |
| <u>0934</u> | <u>11</u> | <u>B</u> | <u>7.2</u> | <u>8.1</u> | <u>33.2</u> | <u>17.1</u> | <u>Y</u> | ↓ | <u>TSS only</u> | <u>Full suite</u> | <u>1A-RW-02-G-B</u> | |
| | | | | | | | | | <u>TSS only</u> | <u>Full suite</u> | | |
| | | | | | | | | | <u>TSS only</u> | <u>Full suite</u> | | |
| | | | | | | | | | <u>TSS only</u> | <u>Full suite</u> | | |
| | | | | | | | | | <u>TSS only</u> | <u>Full suite</u> | | |
| QA/QC Samples Collected: <u>Y</u> / <u>N</u> | | Field duplicate (5% of project) / Field blank (1 during monitoring event) / Rinsate blank (1 during monitoring event) | | | | | | | <u>TSS only</u> | | <u>Full suite</u> | |
| Comments (include photographs taken, if any): <u>No floating material, color, odor or debris</u> | | | | | | | | | | | | |

- Notes:
- Field measurements will be made in triplicate on 5 percent of measurements to ensure project DQOs are met. These measurements will be recorded on the next page.
 - Description should include suspended or floating material, color, odor, or sheen.



Water Quality Sample Form

| Project Name: <u>TMDL compliance WQ</u> | | | Project Number: <u>141205-01</u> | | | Date: <u>2.24.15</u> | | | Time: <u>1012</u> | | | |
|--|-----------|---|----------------------------------|-----|--------------------------------------|----------------------|-----------------------------------|--|-----------------------|-------------------|--------------|--|
| Station ID: <u>1A-RW-03</u> | | Latitude/Northing: <u>33.76229</u> | | | Longitude/Easting: <u>-118.27405</u> | | | Water Depth (ft): <u>58.0</u> (m): <u>17.7</u> | | | | |
| Weather Conditions: <u>Sunny</u> | | | | | | | | Field Personnel: <u>BG, BA</u> | | | | |
| Wind Speed and Direction (see Beaufort Scale): <u>3-7 mph from NW</u> | | | | | | | | Recorded By: <u>BG</u> | | | | |
| Biological Activity (e.g., presence of fish, birds, macrophytes, phytoplankton): <u>Few birds</u> | | | | | | | | | | | | |
| Description of In-water activities (e.g., recreational boating, active discharges): <u>None</u> | | | | | | | | | | | | |
| In Situ Field Parameters ¹ and Water Sample Collection | | | | | | | | | | | | |
| Time | Depth (m) | Surface (S), Mid-depth (M), or Bottom (B) | DO (mg/L) | pH | Salinity (ppt) | Temp (°C) | Chemistry Sample Collected? (Y/N) | Physical Description of Sample ² | Analytes (circle one) | | Sample ID | |
| 1012 | 1 | S | 7.8 | 8.1 | 32.9 | 17.4 | Y | See comment | TSS only | <u>Full suite</u> | 1A-RW-03-G-S | |
| 1013 | 8.8 | M | 7.0 | 8.1 | 33.2 | 17.0 | Y | ↓ | TSS only | Full suite | 1A-RW-03-G-M | |
| 1016 | 17 | B | 6.7 | 8.1 | 33.3 | 17.1 | Y | | TSS only | Full suite | 1A-RW-03-G-B | |
| | | | | | | | | | TSS only | Full suite | | |
| | | | | | | | | | TSS only | Full suite | | |
| | | | | | | | | | TSS only | Full suite | | |
| | | | | | | | | | TSS only | Full suite | | |
| QA/QC Samples Collected: <u>Y / N</u> | | Field duplicate (5% of project) / Field blank (1 during monitoring event) / Rinsate blank (1 during monitoring event) | | | | | | | TSS only | | Full suite | |
| Comments (include photographs taken, if any): <u>No floating material, color, odor or sheen</u> | | | | | | | | | | | | |

- Notes:
- Field measurements will be made in triplicate on 5 percent of measurements to ensure project DQOs are met. These measurements will be recorded on the next page.
 - Description should include suspended or floating material, color, odor, or sheen.

Water Quality Sample Form

| Project Name: TMDL Compliance WQ | | | Project Number: 141205-01 | | | Date: 2.24.15 | | | Time: 1045 | | | |
|--|-----------|---|---------------------------|-----|-------------------------------|---------------|-----------------------------------|---|-----------------------|-------------------|--------------|--|
| Station ID: IA-RW-04 | | Latitude/Northing: 33.75188 | | | Longitude/Easting: -118.27103 | | | Water Depth (ft): 68.6 (m): 20.9 | | | | |
| Weather Conditions: Sunny | | | | | | | | Field Personnel: BG, BA | | | | |
| Wind Speed and Direction (see Beaufort Scale): 3-7 mph from NW | | | | | | | | Recorded By: BG | | | | |
| Biological Activity (e.g., presence of fish, birds, macrophytes, phytoplankton): None | | | | | | | | | | | | |
| Description of In-water activities (e.g., recreational boating, active discharges): None | | | | | | | | | | | | |
| In Situ Field Parameters ¹ and Water Sample Collection | | | | | | | | | | | | |
| Time | Depth (m) | Surface (S), Mid-depth (M), or Bottom (B) | DO (mg/L) | pH | Salinity (ppt) | Temp (°C) | Chemistry Sample Collected? (Y/N) | Physical Description of Sample ² | Analytes (circle one) | | Sample ID | |
| 1045 | 1 | S | 7.5 | 8.1 | 32.8 | 17.1 | Y | See Comment | TSS only | <u>Full suite</u> | IA-RW-04-G-S | |
| 1046 | 1 | S | 7.5 | 8.1 | 32.8 | 17.1 | N | ↓ | TSS only | Full suite | | |
| 1046 | 1 | S | 7.5 | 8.1 | 32.7 | 17.1 | N | | TSS only | Full suite | | |
| 1047 | 10.5 | M | 7.2 | 8.2 | 33.2 | 16.9 | Y | | <u>TSS only</u> | Full suite | IA-RW-04-G-M | |
| 1049 | 20 | B | 7.3 | 8.2 | 33.3 | 16.8 | Y | | <u>TSS only</u> | Full suite | IA-RW-04-G-B | |
| | | | | | | | | | TSS only | Full suite | | |
| | | | | | | | | | TSS only | Full suite | | |
| QA/QC Samples Collected: Y/N | | Field duplicate (5% of project) / Field blank (1 during monitoring event) / Rinsate blank (1 during monitoring event) | | | | | | | TSS only | | Full suite | |
| Comments (include photographs taken, if any): <div style="text-align: center; font-style: italic;">No floating material, color, odor or sheen</div> | | | | | | | | | | | | |

- Notes:
- Field measurements will be made in triplicate on 5 percent of measurements to ensure project DQOs are met. These measurements will be recorded on the next page.
 - Description should include suspended or floating material, color, odor, or sheen.



Water Quality Sample Form

| Project Name: TMDL Compliance WQ | | | Project Number: 141205-01 | | | Date: 2.24.15 | | | Time: 1239 | | |
|--|-----------|---|---------------------------|-------------------------------|----------------|---------------|-----------------------------------|---|----------------------------|--------------|--|
| Station ID: IA-RW-05 | | Latitude/Northing: 33.73253 | | Longitude/Easting: -118.25132 | | | Water Depth (ft): 58.0 (m): 17.5 | | | | |
| Weather Conditions: Sunny | | | | | | | | Field Personnel: BG, BA | | | |
| Wind Speed and Direction (see Beaufort Scale): 1-3 mph from | | | | | | | | Recorded By: BG | | | |
| Biological Activity (e.g., presence of fish, birds, macrophytes, phytoplankton): None | | | | | | | | | | | |
| Description of In-water activities (e.g., recreational boating, active discharges): 1 coast guard vessel | | | | | | | | | | | |
| In Situ Field Parameters ¹ and Water Sample Collection | | | | | | | | | | | |
| Time | Depth (m) | Surface (S), Mid-depth (M), or Bottom (B) | DO (mg/L) | pH | Salinity (ppt) | Temp (°C) | Chemistry Sample Collected? (Y/N) | Physical Description of Sample ² | Analytes (circle one) | Sample ID | |
| 1239 | 1 | S | 7.7 | 8.2 | 33.3 | 17.3 | Y | See comments ↓ | TSS only <u>Full suite</u> | IA-RW-05-G-S | |
| 1240 | 8.6 | M | 7.7 | 8.2 | 33.4 | 16.7 | Y | | TSS only <u>Full suite</u> | IA-RW-05-G-M | |
| 1242 | 17. | B | 7.4 | 8.2 | 33.4 | 16.4 | Y | | TSS only <u>Full suite</u> | IA-RW-05-G-B | |
| | | | | | | | | | TSS only Full suite | | |
| | | | | | | | | | TSS only Full suite | | |
| | | | | | | | | | TSS only Full suite | | |
| | | | | | | | | | TSS only Full suite | | |
| QA/QC Samples Collected: Y <u>N</u> | | Field duplicate (5% of project) / Field blank (1 during monitoring event) / Rinsate blank (1 during monitoring event) | | | | | | | TSS only Full suite | | |
| Comments (include photographs taken, if any): <p style="text-align: center;">No floating debris, color, odor, or sheen.</p> | | | | | | | | | | | |

- Notes:
- Field measurements will be made in triplicate on 5 percent of measurements to ensure project DQOs are met. These measurements will be recorded on the next page.
 - Description should include suspended or floating material, color, odor, or sheen.



Water Quality Sample Form

| Project Name: <u>TMDL compliance WQ</u> | | Project Number: <u>141205-01</u> | | Date: <u>2.24.15</u> | | Time: <u>1125</u> | | | | |
|--|-----------|---|-----------|--------------------------------------|----------------|--|-----------------------------------|---|----------------------------|--------------|
| Station ID: <u>1A-RW-06</u> | | Latitude/Northing: <u>33.72563</u> | | Longitude/Easting: <u>-118.27142</u> | | Water Depth (ft): <u>60.4</u> (m): <u>18.4</u> | | | | |
| Weather Conditions: <u>Sunny</u> | | | | | | Field Personnel: <u>BG, BA</u> | | | | |
| Wind Speed and Direction (see Beaufort Scale): <u>1-3 mph from NW</u> | | | | | | Recorded By: <u>BG</u> | | | | |
| Biological Activity (e.g., presence of fish, birds, macrophytes, phytoplankton): <u>Few birds</u> | | | | | | | | | | |
| Description of In-water activities (e.g., recreational boating, active discharges): <u>Few vessels</u> | | | | | | | | | | |
| In Situ Field Parameters ¹ and Water Sample Collection | | | | | | | | | | |
| Time | Depth (m) | Surface (S), Mid-depth (M), or Bottom (B) | DO (mg/L) | pH | Salinity (ppt) | Temp (°C) | Chemistry Sample Collected? (Y/N) | Physical Description of Sample ² | Analytes (circle one) | Sample ID |
| 1125 | 1 | S | 7.6 | 8.2 | 33.2 | 16.8 | Y | | TSS only <u>Full suite</u> | 1A-RW-06-G-S |
| 1126 | 9.2 | M | 7.7 | 8.2 | 33.3 | 16.7 | Y | | <u>TSS only</u> Full suite | 1A-RW-06-G-M |
| 1128 | 17.8 | B | 7.7 | 8.2 | 33.4 | 16.5 | Y | | <u>TSS only</u> Full suite | 1A-RW-06-G-B |
| | | | | | | | | | TSS only Full suite | |
| | | | | | | | | | TSS only Full suite | |
| | | | | | | | | | TSS only Full suite | |
| | | | | | | | | | TSS only Full suite | |
| QA/QC Samples Collected: <u>Y</u> / <u>N</u> | | Field duplicate (5% of project) / Field blank (1 during monitoring event) / Rinsate blank (1 during monitoring event) | | | | | | TSS only Full suite | | |
| Comments (include photographs taken, if any): <u>No floating debris, color, odor or sheen</u> | | | | | | | | | | |

Notes:

- Field measurements will be made in triplicate on 5 percent of measurements to ensure project DQOs are met. These measurements will be recorded on the next page.
- Description should include suspended or floating material, color, odor, or sheen.

Water Quality Sample Form

| Project Name: TMDL compliance WQ | | | Project Number: 141205-01 | | | Date: 2.24.15 | | Time: 1311 | | | |
|---|-----------|---|---------------------------|-------------------------------|----------------|---------------------------------|-----------------------------------|---|----------------------------|--------------|--|
| Station ID: FH-RW-07 | | Latitude/Northing: 33.73574 | | Longitude/Easting: -118.26717 | | Water Depth (ft): 23.9 (m): 7.2 | | | | | |
| Weather Conditions: Sunny | | | | | | | Field Personnel: BG, BA | | | | |
| Wind Speed and Direction (see Beaufort Scale): 1-3 mph from NW | | | | | | | Recorded By: BG | | | | |
| Biological Activity (e.g., presence of fish, birds, macrophytes, phytoplankton): None | | | | | | | | | | | |
| Description of In-water activities (e.g., recreational boating, active discharges): Few boats | | | | | | | | | | | |
| In Situ Field Parameters ¹ and Water Sample Collection | | | | | | | | | | | |
| Time | Depth (m) | Surface (S), Mid-depth (M), or Bottom (B) | DO (mg/L) | pH | Salinity (ppt) | Temp (°C) | Chemistry Sample Collected? (Y/N) | Physical Description of Sample ² | Analytes (circle one) | Sample ID | |
| 1311 | 1 | S | 7.5 | 8.2 | 33.3 | 17.3 | Y | see comments | TSS only <u>Full suite</u> | FH-RW-07-G-S | |
| 1312 | 3.4 | M | 7.4 | 8.2 | 33.3 | 17.1 | Y | ↓ | <u>TSS only</u> Full suite | FH-RW-07-G-M | |
| 1314 | 6.6 | B | 7.3 | 8.2 | 33.4 | 17.1 | Y | ↓ | <u>TSS only</u> Full suite | FH-RW-07-G-B | |
| | | | | | | | | | TSS only Full suite | | |
| | | | | | | | | | TSS only Full suite | | |
| | | | | | | | | | TSS only Full suite | | |
| | | | | | | | | | TSS only Full suite | | |
| QA/QC Samples Collected: Y/N | | Field duplicate (5% of project) / Field blank (1 during monitoring event) / Rinsate blank (1 during monitoring event) | | | | | | | TSS only Full suite | | |
| Comments (include photographs taken, if any): No floating material, color, odor or sheen | | | | | | | | | | | |

- Notes:
- Field measurements will be made in triplicate on 5 percent of measurements to ensure project DQOs are met. These measurements will be recorded on the next page.
 - Description should include suspended or floating material, color, odor, or sheen.



Water Quality Sample Form

| Project Name: <i>TMDL Compliance WQ</i> | | | Project Number: <i>191205-01.01</i> | | | Date: <i>2/24/15</i> | | | Time: <i>1305</i> | | | |
|--|-----------|---|-------------------------------------|------------|--|-------------------------------|-----------------------------------|--|---|---|------------------------------|--|
| Station ID: <i>OB-RW-08</i> | | Latitude/Northing: <i>33° 42.908' N</i> | | | Longitude/Easting: <i>118° 14.548' W</i> | | | Water Depth (ft): <i>73.5</i> (m): <i>22.4</i> | | | | |
| Weather Conditions: <i>Sunny, breeze</i> | | | | | | Field Personnel: <i>CO/MA</i> | | | | | | |
| Wind Speed and Direction (see Beaufort Scale): <i>Light Breeze from NE</i> | | | | | | Recorded By: <i>CO</i> | | | | | | |
| Biological Activity (e.g., presence of fish, birds, macrophytes, phytoplankton): <i>None</i> | | | | | | | | | | | | |
| Description of In-water activities (e.g., recreational boating, active discharges): <i>recreational vessel</i> | | | | | | | | | | | | |
| In Situ Field Parameters ¹ and Water Sample Collection | | | | | | | | | | | | |
| Time | Depth (m) | Surface (S), Mid-depth (M), or Bottom (B) | DO (mg/L) | pH | Salinity (ppt) | Temp (°C) | Chemistry Sample Collected? (Y/N) | Physical Description of Sample ² | Analytes (circle one) | | Sample ID | |
| <i>44871</i> 1305 | <i>1</i> | <i>S</i> | <i>8.8</i> | <i>8.2</i> | <i>35.1</i> | <i>16.8</i> | <i>Y</i> | <i>See Comments</i> | <input checked="" type="radio"/> TSS only | <input checked="" type="radio"/> Full suite | <i>OB-RW-08-G-J-20150224</i> | |
| <i>44971</i> 1310 | <i>11</i> | <i>M</i> | <i>8.7</i> | <i>8.2</i> | <i>35.5</i> | <i>16.4</i> | <i>NY^{CO}</i> | ↓ | <input checked="" type="radio"/> TSS only | <input type="radio"/> Full suite | <i>OB-RW-08-G-M-20150224</i> | |
| <i>44993</i> 1315 | <i>21</i> | <i>B</i> | <i>8.4</i> | <i>8.2</i> | <i>35.9</i> | <i>16.10</i> | <i>NY^{CO}</i> | | <input checked="" type="radio"/> TSS only | <input type="radio"/> Full suite | <i>OB-RW-08-G-B-20150224</i> | |
| <i>44993</i> 1316 | <i>21</i> | <i>B</i> | <i>8.4</i> | <i>8.2</i> | <i>35.9</i> | <i>16.10</i> | <i>NY^{CO}</i> | | <input checked="" type="radio"/> TSS only | <input type="radio"/> Full suite | <i>OB-RW-08-G-B-20150224</i> | |
| | | | | | | | | | <input type="radio"/> TSS only | <input type="radio"/> Full suite | | |
| | | | | | | | | | <input type="radio"/> TSS only | <input type="radio"/> Full suite | | |
| | | | | | | | | | <input type="radio"/> TSS only | <input type="radio"/> Full suite | | |
| QA/QC Samples Collected: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N | | Field duplicate (5% of project) / Field blank (1 during monitoring event) / Rinsate blank (1 during monitoring event) | | | | | | <input type="radio"/> TSS only | | <input type="radio"/> Full suite | | |
| Comments (include photographs taken, if any): <i>Clear, no particulates, odor, sheen</i> | | | | | | | | | | | | |

- Notes:
- Field measurements will be made in triplicate on 5 percent of measurements to ensure project DQOs are met. These measurements will be recorded on the next page.
 - Description should include suspended or floating material, color, odor, or sheen.

Water Quality Sample Form

| | | | |
|---|---|---|--|
| Project Name: <u>TMDL Compliance WQ</u> | Project Number: <u>141-205-01.01</u> | Date: <u>2/29/05</u> | Time: <u>1345</u> |
| Station ID: <u>OB-RW-09</u> | Latitude/Northing: <u>33° 42.86500</u> <u>33.92361</u> | Longitude/Easting: <u>118° 15.979</u> <u>118.52194</u> | Water Depth (ft): <u>49.2</u> (m): <u>15</u> |
| Weather Conditions: <u>Sunny, Windy</u> | | | Field Personnel: <u>CD/MA</u> |
| Wind Speed and Direction (see Beaufort Scale): <u>Moderate breeze from NE</u> | | | Recorded By: <u>CD</u> |

Biological Activity (e.g., presence of fish, birds, macrophytes, phytoplankton):

Description of In-water activities (e.g., recreational boating, active discharges):

In Situ Field Parameters¹ and Water Sample Collection

| Time | Depth (m) | Surface (S), Mid-depth (M), or Bottom (B) | DO (mg/L) | pH | Salinity (ppt) | Temp (°C) | Chemistry Sample Collected? (Y/N) | Physical Description of Sample ² | Analytes (circle one) | Sample ID |
|-------------------------------------|---|---|------------|------------|----------------|--------------|-----------------------------------|---|-----------------------------------|------------------------------|
| <u>1345</u> | <u>1</u> | <u>S</u> | <u>8.5</u> | <u>8.2</u> | <u>35.3</u> | <u>16.74</u> | <u>Y</u> | <u>see comment</u> | <u>TSS only</u> <u>Full suite</u> | <u>OB-RW-09-G-S-20150224</u> |
| <u>1405</u> | <u>7.5</u> | <u>M</u> | <u>8.5</u> | <u>8.2</u> | <u>35.3</u> | <u>16.71</u> | <u>NY^{co}</u> | <u>↓</u> | <u>TSS only</u> <u>Full suite</u> | <u>OB-RW-09-B-M-20150224</u> |
| <u>1410</u> | <u>14</u> | <u>B</u> | <u>8.5</u> | <u>8.0</u> | <u>35.4</u> | <u>16.67</u> | <u>NY^{co}</u> | <u>↓</u> | <u>TSS only</u> <u>Full suite</u> | <u>OB-RW-09-G-B-20150224</u> |
| | | | | | | | | | <u>TSS only</u> <u>Full suite</u> | |
| | | | | | | | | | <u>TSS only</u> <u>Full suite</u> | |
| | | | | | | | | | <u>TSS only</u> <u>Full suite</u> | |
| | | | | | | | | | <u>TSS only</u> <u>Full suite</u> | |
| QA/QC Samples Collected: <u>Y/N</u> | Field duplicate (5% of project) / Field blank (1 during monitoring event) / Rinsate blank (1 during monitoring event) | | | | | | | | <u>TSS only</u> <u>Full suite</u> | |

Comments (include photographs taken, if any): clear, no particulates/sheen/color
* strong wind, may be 714m due to angle of lines

- Notes:
- Field measurements will be made in triplicate on 5 percent of measurements to ensure project DQOs are met. These measurements will be recorded on the next page.
 - Description should include suspended or floating material, color, odor, or sheen.



Water Quality Sample Form

| Project Name: TMDL Compliance WQ | | | Project Number: 141205-01 | | | Date: 2.24.15 | | Time: 1348 | | | |
|---|-----------|---|---------------------------|-------------------------------|----------------|---------------------------------|-----------------------------------|---|----------------------------|--------------|--|
| Station ID: CM-RW-10 | | Latitude/Northing: 33.71946 | | Longitude/Easting: -118.27901 | | Water Depth (ft): 400 (m): 12.2 | | | | | |
| Weather Conditions: Sunny | | | | | | | Field Personnel: BG, BA | | | | |
| Wind Speed and Direction (see Beaufort Scale): 1-3 mph from NW | | | | | | | Recorded By: BG | | | | |
| Biological Activity (e.g., presence of fish, birds, macrophytes, phytoplankton): Moderate bird activity | | | | | | | | | | | |
| Description of In-water activities (e.g., recreational boating, active discharges): Few recreational vessels passed through | | | | | | | | | | | |
| In Situ Field Parameters ¹ and Water Sample Collection | | | | | | | | | | | |
| Time | Depth (m) | Surface (S), Mid-depth (M), or Bottom (B) | DO (mg/L) | pH | Salinity (ppt) | Temp (°C) | Chemistry Sample Collected? (Y/N) | Physical Description of Sample ² | Analytes (circle one) | Sample ID | |
| 1348 | 1 | S | 7.6 | 8.2 | 33.1 | 17.1 | Y | See comment | TSS only <u>Full suite</u> | CM-RW-10-G-S | |
| 1349 | 6.1 | M | 7.6 | 8.2 | 33.4 | 16.6 | Y | ↓ | <u>TSS only</u> Full suite | CM-RW-10-G-M | |
| 1351 | 11.5 | B | 4.8 | 8.2 | 33.4 | 16.5 | Y | ↓ | <u>TSS only</u> Full suite | CM-RW-10-G-B | |
| | | | | | | | | | TSS only Full suite | | |
| | | | | | | | | | TSS only Full suite | | |
| | | | | | | | | | TSS only Full suite | | |
| | | | | | | | | | TSS only Full suite | | |
| QA/QC Samples Collected: Y/N | | Field duplicate (5% of project) / Field blank (1 during monitoring event) / Rinsate blank (1 during monitoring event) | | | | | Lab Dup | | <u>TSS only</u> Full suite | | CM-RW-10- M -M ^G |
| Comments (include photographs taken, if any): No floating material, color, odor, or sheen | | | | | | | | | | | |

- Notes:
- Field measurements will be made in triplicate on 5 percent of measurements to ensure project DQOs are met. These measurements will be recorded on the next page.
 - Description should include suspended or floating material, color, odor, or sheen.

Water Quality Sample Form

| Project Name: <i>TMDL Compliance WQ</i> | | | Project Number: <i>141205-01.01</i> | | | Date: <i>2/24/15</i> | | | Time: <i>1423</i> | | |
|--|-----------|---|-------------------------------------|------------|---|----------------------|-----------------------------------|---|--|------------------------------|-----------|
| Station ID: <i>CB-RW-11</i> | | Latitude/Northing: <i>33° 42.749 N</i> | | | Longitude/Easting: <i>118° 16.764 W</i> | | | Water Depth (ft): <i>19.8</i> (m): <i>6</i> | | | |
| Weather Conditions: <i>Sunny, windy</i> | | | | | | <i>33.90806</i> | | | Field Personnel: <i>CD/MA</i> | | |
| Wind Speed and Direction (see Beaufort Scale): <i>Fresh breeze out of NE</i> | | | | | | <i>118.46222</i> | | | Recorded By: <i>CD</i> | | |
| Biological Activity (e.g., presence of fish, birds, macrophytes, phytoplankton): <i>4 pelicans, 2 seagulls</i> | | | | | | | | | | | |
| Description of In-water activities (e.g., recreational boating, active discharges): <i>1 recreational boat</i> | | | | | | | | | | | |
| In Situ Field Parameters ¹ and Water Sample Collection | | | | | | | | | | | |
| Time | Depth (m) | Surface (S), Mid-depth (M), or Bottom (B) | DO (mg/L) | pH | Salinity (ppt) | Temp (°C) | Chemistry Sample Collected? (Y/N) | Physical Description of Sample ² | Analytes (circle one) | | Sample ID |
| <i>1423</i> | <i>1</i> | <i>S</i> | <i>8.2</i> | <i>8.2</i> | <i>35.3</i> | <i>16.74</i> | <i>Y</i> | <i>see comments</i> | <input type="radio"/> TSS only <input checked="" type="radio"/> Full suite | <i>CB-RW-11-G-S-20150224</i> | |
| <i>1430</i> | <i>3</i> | <i>M</i> | <i>8.1</i> | <i>8.2</i> | <i>35.3</i> | <i>16.67</i> | <i>NY</i> | <i>↓</i> | <input type="radio"/> TSS only <input checked="" type="radio"/> Full suite | <i>CB-RW-11-G-M-20150224</i> | |
| <i>1433</i> | <i>5</i> | <i>B</i> | <i>8.0</i> | <i>8.2</i> | <i>35.5</i> | <i>16.5</i> | <i>NY</i> | <i>↓</i> | <input type="radio"/> TSS only <input checked="" type="radio"/> Full suite | <i>CB-RW-11-G-B-20150224</i> | |
| | | | | | | | | | <input type="radio"/> TSS only <input type="radio"/> Full suite | | |
| | | | | | | | | | <input type="radio"/> TSS only <input type="radio"/> Full suite | | |
| | | | | | | | | | <input type="radio"/> TSS only <input type="radio"/> Full suite | | |
| | | | | | | | | | <input type="radio"/> TSS only <input type="radio"/> Full suite | | |
| QA/QC Samples Collected: <i>Y/N</i> | | Field duplicate (5% of project) / Field blank (1 during monitoring event) / Rinsate blank (1 during monitoring event) | | | | | | | <input type="radio"/> TSS only <input type="radio"/> Full suite | | |
| Comments (include photographs taken, if any): <i>clear, no particulates/odor/sheen</i> | | | | | | | | | | | |

US/bun
44948
44947
44954

- Notes:
- Field measurements will be made in triplicate on 5 percent of measurements to ensure project DQOs are met. These measurements will be recorded on the next page.
 - Description should include suspended or floating material, color, odor, or sheen.



Water Quality Sample Form

| Project Name: <i>TMDL Compliance WQ</i> | | | Project Number: <i>141205-01.01</i> | | | Date: <i>2.24.15</i> | | | Time: <i>0846</i> | | | |
|---|----------------------------------|---|-------------------------------------|------------|--|---|-----------------------------------|---|--|--|------------------------------|--|
| Station ID: <i>IB-RW-12</i> | | Latitude/Northing: <i>33.768371</i> ^{<i>33.80583</i>} <i>46.141</i> | | | Longitude/Easting: <i>718.72851</i> ^{<i>718.38833</i>} <i>118.13.618</i> | | | Water Depth (ft): <i>59</i> (m): <i>18</i> | | | | |
| Weather Conditions: <i>Sunny, light breeze</i> | | | | | | Field Personnel: <i>CD, MIA</i> | | | | | | |
| Wind Speed and Direction (see Beaufort Scale): <i>Light air from NE</i> | | | | | | Recorded By: <i>CD</i> | | | | | | |
| Biological Activity (e.g., presence of fish, birds, macrophytes, phytoplankton): <i>none</i> | | | | | | | | | | | | |
| Description of In-water activities (e.g., recreational boating, active discharges): <i>3 Cargo ships unloading</i> | | | | | | | | | | | | |
| In Situ Field Parameters ¹ and Water Sample Collection | | | | | | | | | | | | |
| Time | Depth (m) | Surface (S), Mid-depth (M), or Bottom (B) | DO (mg/L) | pH | Salinity (ppt) | Temp (°C) | Chemistry Sample Collected? (Y/N) | Physical Description of Sample ² | Analytes (circle one) | | Sample ID | |
| <i>43215</i> <i>0846</i> | <i>1m</i> | <i>S</i> | <i>7.8</i> | <i>7.7</i> | <i>33.5</i> | <i>17.03</i> ^{<i>17.03</i>} | <i>Y</i> | <i>See comment</i> | <i>TSS only</i> | <input checked="" type="radio"/> <i>Full suite</i> | <i>IB-RW-12-G-S-20150224</i> | |
| <i>44497</i> <i>0905</i> | <i>30m</i> <i>30m</i> | <i>M</i> | <i>8.0</i> | <i>8.0</i> | <i>34.7</i> | <i>16.98</i> ^{<i>16.98</i>} | <i>NY</i> | <i>↓</i> | <input checked="" type="radio"/> <i>TSS only</i> | <i>Full suite</i> | <i>IB-RW-12-G-M-20150224</i> | |
| <i>44650</i> <i>0909</i> | <i>17m</i> <i>17m</i> | <i>B</i> | <i>8.0</i> | <i>8.1</i> | <i>34.8</i> | <i>16.94</i> ^{<i>16.94</i>} | <i>NY</i> | <i>↓</i> | <input checked="" type="radio"/> <i>TSS only</i> | <i>Full suite</i> | <i>IB-RW-12-G-B-20150224</i> | |
| | | | | | | | | | <i>TSS only</i> | <i>Full suite</i> | | |
| | | | | | | | | | <i>TSS only</i> | <i>Full suite</i> | | |
| | | | | | | | | | <i>TSS only</i> | <i>Full suite</i> | | |
| | | | | | | | | | <i>TSS only</i> | <i>Full suite</i> | | |
| QA/QC Samples Collected: Y <input checked="" type="radio"/> N | | Field duplicate (5% of project) / Field blank (1 during monitoring event) / Rinsate blank (1 during monitoring event) | | | | | | | <i>TSS only</i> | | <i>Full suite</i> | |
| Comments (include photographs taken, if any): <i>Clear water</i> <i>No floating material, color, odor or sheen</i> | | | | | | | | | | | | |

- Notes:
- Field measurements will be made in triplicate on 5 percent of measurements to ensure project DQOs are met. These measurements will be recorded on the next page.
 - Description should include suspended or floating material, color, odor, or sheen.

Water Quality Sample Form

| Project Name: <i>TMDL Compliance WQ</i> | | | Project Number: <i>141205-01.01</i> | | | Date: <i>2/24/15</i> | | | Time: <i>0935</i> | | |
|--|------------|---|-------------------------------------|------------|--|----------------------|-----------------------------------|---|--|---|--|
| Station ID: <i>IB-RW-13</i> | | Latitude/Northing: <i>33° 45.218' N</i> | | | Longitude/Easting: <i>118° 12.473' W</i> | | | Water Depth (ft): <i>73.9</i> (m): <i>22.5</i> | | | |
| Weather Conditions: <i>Sunny</i> | | | | | | | | Field Personnel: <i>CD/MA</i> | | | |
| Wind Speed and Direction (see Beaufort Scale): <i>light air</i> | | | | | | | | Recorded By: <i>CD</i> | | | |
| Biological Activity (e.g., presence of fish, birds, macrophytes, phytoplankton): <i>none</i> | | | | | | | | | | | |
| Description of In-water activities (e.g., recreational boating, active discharges): <i>1 boat, 2 cargo ships unloading</i> | | | | | | | | | | | |
| In Situ Field Parameters ¹ and Water Sample Collection | | | | | | | | | | | |
| Time | Depth (m) | Surface (S), Mid-depth (M), or Bottom (B) | DO (mg/L) | pH | Salinity (ppt) | Temp (°C) | Chemistry Sample Collected? (Y/N) | Physical Description of Sample ² | Analytes (circle one) | Sample ID | |
| <i>0935</i> | <i>1M</i> | <i>S</i> | <i>8.9</i> | <i>8.1</i> | <i>35.1</i> | <i>16.84</i> | <i>Y</i> | <i>See comment</i> | <input checked="" type="radio"/> Full suite | <i>IB-RW-13-G-S-20150224</i> | |
| <i>0938</i> | <i>1M</i> | <i>S</i> | <i>8.6</i> | <i>8.1</i> | <i>35.1</i> | <i>16.84</i> | <i>N</i> | ↓ | <input type="radio"/> TSS only <input checked="" type="radio"/> Full suite | <i>IB-RW-13-G-S-20150224</i> | |
| <i>0940</i> | <i>1M</i> | <i>S</i> | <i>8.5</i> | <i>8.2</i> | <i>35.1</i> | <i>16.84</i> | <i>N</i> | | <input type="radio"/> TSS only <input checked="" type="radio"/> Full suite | <i>IB-RW-13-G-S-20150224</i> | |
| <i>0952</i> | <i>11M</i> | <i>M</i> | <i>8.4</i> | <i>8.2</i> | <i>35.2</i> | <i>16.76</i> | <i>N</i> | | <input checked="" type="radio"/> TSS only <input type="radio"/> Full suite | <i>IB-RW-13-G-M-20150224</i> | |
| <i>0957</i> | <i>21M</i> | <i>B</i> | <i>8.3</i> | <i>8.2</i> | <i>35.3</i> | <i>16.68</i> | <i>N</i> | | <input checked="" type="radio"/> TSS only <input type="radio"/> Full suite | <i>IB-RW-13-G-B-20150224</i> | |
| | | | | | | | | | <input type="radio"/> TSS only <input type="radio"/> Full suite | | |
| | | | | | | | | <input type="radio"/> TSS only <input type="radio"/> Full suite | | | |
| QA/QC Samples Collected: <i>Y</i> <input checked="" type="radio"/> <i>N</i> <input type="radio"/> | | Field duplicate (5% of project) / Field blank (1 during monitoring event) / Rinsate blank (1 during monitoring event) | | | | | | | <input type="radio"/> TSS only <input type="radio"/> Full suite | | |
| Comments (include photographs taken, if any): <i>Clear, no odor, sheen or particulates</i> | | | | | | | | | | | |

41824
41830
41832
41864
41890

CD
CD

- Notes:
- Field measurements will be made in triplicate on 5 percent of measurements to ensure project DQOs are met. These measurements will be recorded on the next page.
 - Description should include suspended or floating material, color, odor, or sheen.



Water Quality Sample Form

| Project Name: <i>TMDL Compliance WQ</i> | | | Project Number: <i>14/2015-01.01</i> | | | Date: <i>2/24/15</i> | | | Time: <i>1024</i> | | | |
|--|-------------|---|--------------------------------------|------------|---------------------------------------|-------------------------------|-----------------------------------|--|--|--|------------------------------|--|
| Station ID: <i>IB-RW-14</i> | | Latitude/Northing: <i>33° 45.026</i> | | | Longitude/Easting: <i>118° 13.951</i> | | | Water Depth (ft): <i>49.2</i> (m): <i>15</i> | | | | |
| Weather Conditions: <i>Sunny</i> | | | | | | Field Personnel: <i>MA/CD</i> | | | | | | |
| Wind Speed and Direction (see Beaufort Scale): <i>light air from NE</i> | | | | | | Recorded By: <i>CD</i> | | | | | | |
| Biological Activity (e.g., presence of fish, birds, macrophytes, phytoplankton): <i>none</i> | | | | | | | | | | | | |
| Description of In-water activities (e.g., recreational boating, active discharges): <i>3 cargo ships unloading</i> | | | | | | | | | | | | |
| In Situ Field Parameters and Water Sample Collection | | | | | | | | | | | | |
| Time | Depth (m) | Surface (S), Mid-depth (M), or Bottom (B) | DO (mg/L) | pH | Salinity (ppt) | Temp (°C) | Chemistry Sample Collected? (Y/N) | Physical Description of Sample ² | Analytes (circle one) | | Sample ID | |
| <i>vs/cm</i> <i>44923</i> | <i>1024</i> | <i>S</i> | <i>9.2</i> | <i>8.2</i> | <i>35.1</i> | <i>16.89</i> | <i>Y</i> | <i>see comment</i> | <input checked="" type="checkbox"/> TSS only | <input checked="" type="checkbox"/> Full suite | <i>IB-RW-14-G-S-20150224</i> | |
| <i>44946</i> | <i>1033</i> | <i>M</i> | <i>9.0</i> | <i>8.2</i> | <i>35.3</i> | <i>16.76</i> | <i>Y</i> | <i>↓</i> | <input checked="" type="checkbox"/> TSS only | <input type="checkbox"/> Full suite | <i>IB-RW-14-G-M-20150224</i> | |
| <i>44955</i> | <i>1042</i> | <i>B</i> | <i>8.6</i> | <i>8.2</i> | <i>35.3</i> | <i>16.67</i> | <i>Y</i> | <i>↓</i> | <input checked="" type="checkbox"/> TSS only | <input type="checkbox"/> Full suite | <i>IB-RW-14-G-B-20150224</i> | |
| | | | | | | | | | <input type="checkbox"/> TSS only | <input type="checkbox"/> Full suite | | |
| | | | | | | | | | <input type="checkbox"/> TSS only | <input type="checkbox"/> Full suite | | |
| | | | | | | | | | <input type="checkbox"/> TSS only | <input type="checkbox"/> Full suite | | |
| | | | | | | | | | <input type="checkbox"/> TSS only | <input type="checkbox"/> Full suite | | |
| QA/QC Samples Collected: <input checked="" type="checkbox"/> Y / <input type="checkbox"/> N | | Field duplicate (5% of project) / Field blank (1 during monitoring event) / Rinsate blank (1 during monitoring event) | | | | | | <input type="checkbox"/> TSS only | | <input type="checkbox"/> Full suite | | |
| Comments (include photographs taken, if any): <i>clear, no color / sheen / particulates</i> | | | | | | | | | | | | |

- Notes:
- Field measurements will be made in triplicate on 5 percent of measurements to ensure project DQOs are met. These measurements will be recorded on the next page.
 - Description should include suspended or floating material, color, odor, or sheen.



Water Quality Sample Form

| Project Name: <u>TMDL Compliance WQ</u> | | | Project Number: <u>141205-01-01</u> | | | Date: <u>2/24/15</u> | | | Time: <u>1205</u> | | |
|---|-----------|--|-------------------------------------|------------|---|----------------------|-----------------------------------|--|----------------------------|------------------------------|--|
| Station ID: <u>IB-RW-15</u> | | Latitude/Northing: <u>33° 33.97300</u> <u>111.50300</u> | | | Longitude/Easting: <u>118° 25' 16.7</u> <u>1218600</u> | | | Water Depth (ft): <u>65.7</u> (m): <u>20</u> | | | |
| Weather Conditions: <u>Bunny</u> | | | | | | | | Field Personnel: <u>MA/CO</u> | | | |
| Wind Speed and Direction (see Beaufort Scale): <u>light air, from NE</u> | | | | | | | | Recorded By: <u>CO</u> | | | |
| Biological Activity (e.g., presence of fish, birds, macrophytes, phytoplankton): <u>Several water fowl</u> | | | | | | | | | | | |
| Description of In-water activities (e.g., recreational boating, active discharges): <u>6 Cargo ships offloading</u> | | | | | | | | | | | |
| In Situ Field Parameters ¹ and Water Sample Collection | | | | | | | | | | | |
| Time | Depth (m) | Surface (S), Mid-depth (M), or Bottom (B) | DO (mg/L) | pH | Salinity (ppt) | Temp (°C) | Chemistry Sample Collected? (Y/N) | Physical Description of Sample ² | Analytes (circle one) | Sample ID | |
| <u>1205</u> | <u>1m</u> | <u>S</u> | <u>9.0</u> | <u>8.2</u> | <u>35.0</u> | <u>16.92</u> | <u>Y</u> | <u>see comment</u> | TSS only <u>Full suite</u> | <u>IB-RW-15-G-S-20150224</u> | |
| <u>1215</u> | <u>10</u> | <u>M</u> | <u>8.3</u> | <u>8.2</u> | <u>35.3</u> | <u>16.73</u> | <u>Y</u> | <u>↓</u> | <u>TSS only</u> Full suite | <u>IB-RW-15-G-M-20150224</u> | |
| <u>1216</u> | <u>10</u> | <u>M</u> | <u>8.3</u> | <u>8.2</u> | <u>35.3</u> | <u>16.73</u> | <u>Y</u> | <u>↓</u> | <u>TSS only</u> Full suite | <u>IB-RW-15-G-M-20150224</u> | |
| <u>1219</u> | <u>19</u> | <u>B</u> | <u>8.4</u> | <u>8.2</u> | <u>35.4</u> | <u>16.64</u> | <u>Y</u> | <u>↓</u> | <u>TSS only</u> Full suite | <u>IB-RW-15-G-B-20150224</u> | |
| | | | | | | | | | TSS only Full suite | | |
| | | | | | | | | | TSS only Full suite | | |
| | | | | | | | | | TSS only Full suite | | |
| QA/QC Samples Collected: <u>Y</u> N | | Field duplicate (5% of project) / Field blank (1 during monitoring event) / Rinsate blank (1 during monitoring event) <u>TSS mid</u> | | | | | | | TSS only Full suite | | |
| Comments (include photographs taken, if any): <u>no odor sheen or particulates, clear</u> | | | | | | | | | | | |

444802
44493
44457
44471

- Notes:
- Field measurements will be made in triplicate on 5 percent of measurements to ensure project DQOs are met. These measurements will be recorded on the next page.
 - Description should include suspended or floating material, color, odor, or sheen.



Water Quality Sample Form

| Project Name: <u>TMDL Compliance WQ</u> | | | Project Number: <u>141205-01.01</u> | | | Date: <u>2/24/15</u> | | Time: <u>1245</u> | | |
|---|------------|---|-------------------------------------|---|----------------|---|-----------------------------------|---|----------------------------|---------------------------|
| Station ID: <u>OB-RW-16</u> | | Latitude/Northing: <u>33° 43' 43.7900</u> | | Longitude/Easting: <u>118° 13' 41.392</u> | | Water Depth (ft): <u>36.1</u> (m): <u>11m</u> | | | | |
| Weather Conditions: <u>Sunny</u> | | | | | | | Field Personnel: <u>CD/MD</u> | | | |
| Wind Speed and Direction (see Beaufort Scale): <u>Calm</u> | | | | | | | Recorded By: <u>CD</u> | | | |
| Biological Activity (e.g., presence of fish, birds, macrophytes, phytoplankton): <u>none</u> | | | | | | | | | | |
| Description of In-water activities (e.g., recreational boating, active discharges): <u>3 cargo ships anchored</u> | | | | | | | | | | |
| In Situ Field Parameters and Water Sample Collection | | | | | | | | | | |
| Time | Depth (m) | Surface (S), Mid-depth (M), or Bottom (B) | DO (mg/L) | pH | Salinity (ppt) | Temp (°C) | Chemistry Sample Collected? (Y/N) | Physical Description of Sample ² | Analytes (circle one) | Sample ID |
| <u>1245</u> | <u>1</u> | <u>S</u> | <u>9.2</u> | <u>8.2</u> | <u>35.1</u> | <u>62.32°F</u> <u>16.84</u> | <u>Y</u> | <u>see comment</u> | TSS only <u>Full suite</u> | <u>OB-16-G-S-20150224</u> |
| <u>1251</u> | <u>5.5</u> | <u>M</u> | <u>9.4</u> | <u>8.2</u> | <u>35.3</u> | <u>61.89°F</u> <u>16.61</u> | <u>NY</u> | <u>↓</u> | <u>TSS only</u> Full suite | <u>OB-16-G-M-20150224</u> |
| <u>1254</u> | <u>10m</u> | <u>B</u> | <u>8.7</u> | <u>8.2</u> | <u>35.4</u> | <u>61.90°F</u> <u>16.61</u> | <u>NY</u> | <u>↓</u> | <u>TSS only</u> Full suite | <u>OB-16-G-B-20150224</u> |
| | | | | | | | | | TSS only Full suite | |
| | | | | | | | | | TSS only Full suite | |
| | | | | | | | | | TSS only Full suite | |
| | | | | | | | | | TSS only Full suite | |
| QA/QC Samples Collected: <u>Y/N</u> | | Field duplicate (5% of project) / Field blank (1 during monitoring event) / Rinsate blank (1 during monitoring event) | | | | | | TSS only Full suite | | |
| Comments (include photographs taken, if any): <u>Clear, no particulates, color or sheen</u> | | | | | | | | | | |

0/0cm
 44870
 44899
 44975

- Notes:
- Field measurements will be made in triplicate on 5 percent of measurements to ensure project DQOs are met. These measurements will be recorded on the next page.
 - Description should include suspended or floating material, color, odor, or sheen.



Water Quality Sample Form

| Project Name: <u>TMDL Compliance WQ</u> | | | Project Number: <u>141205-01.0</u> | | | Date: <u>2/24/15</u> | | | Time: <u>10:40</u> | | |
|--|------------------------|---|------------------------------------|------|---|----------------------|-----------------------------------|---|-----------------------|------------|----------------------|
| Station ID: <u>17</u> | | Latitude/Northing: <u>33.72754372</u> | | | Longitude/Easting: <u>-118.18605175</u> | | | Water Depth (ft): <u>17</u> (m): | | | |
| Weather Conditions: <u>Sunny, 50% Cloud Cover</u> | | | | | | | | Field Personnel: <u>NO/RW/TKG</u> | | | |
| Wind Speed and Direction (see Beaufort Scale): <u>reasonable 10 mph, N</u> | | | | | | | | Recorded By: <u>Nick Dasilva</u> | | | |
| Biological Activity (e.g., presence of fish, birds, macrophytes, phytoplankton): <u>some gulls, dolphins</u> | | | | | | | | | | | |
| Description of In-water activities (e.g., recreational boating, active discharges): <u>recreational vessels</u> | | | | | | | | | | | |
| In Situ Field Parameters ¹ and Water Sample Collection | | | | | | | | | | | |
| Time | Depth (m) <u>ft</u> | Surface (S), Mid-depth (M), or Bottom (B) | DO (mg/L) | pH | Salinity (ppt) | Temp (°C) | Chemistry Sample Collected? (Y/N) | Physical Description of Sample ² | Analytes (circle one) | | Sample ID |
| 10:42 | 67 ft | B | 8.81 | 7.85 | 32.95 | 16.31 | Y | | TSS only | Full suite | OB-RW-17-G-B-2060224 |
| 10:44 | 37 ft | M | 8.85 | 7.84 | 32.95 | 16.62 | Y | | TSS only | Full suite | OB-RW-17-G-M-2060224 |
| 10:45 | 1 ft | S | 8.99 | 7.81 | 30.31 | 16.37 | Y | | TSS only | Full suite | OB-RW-17-G-S-2060224 |
| | | | | | | | | | TSS only | Full suite | |
| | | | | | | | | | TSS only | Full suite | |
| | | | | | | | | | TSS only | Full suite | |
| | | | | | | | | | TSS only | Full suite | |
| QA/QC Samples Collected: Y / N | | Field duplicate (5% of project) / Field blank (1 during monitoring event) / Rinsate blank (1 during monitoring event) | | | | | | TSS only | | Full suite | |
| Comments (include photographs taken, if any): <u>YS1 cord Max length at 67 ft. "Bottom" sampling taken 10ft off actual bottom.</u> | | | | | | | | | | | |

- Notes:
- Field measurements will be made in triplicate on 5 percent of measurements to ensure project DQOs are met. These measurements will be recorded on the next page.
 - Description should include suspended or floating material, color, odor, or sheen.



Water Quality Sample Form

| Project Name: <i>FMDL Compliance (WQ)</i> | | | Project Number: <i>14205-01-10</i> | | | Date: <i>2/24/15</i> | | | Time: <i>10:00</i> | | | |
|---|-------------|---|------------------------------------|-------------|--|----------------------|-----------------------------------|--|---|---|----------------------------------|--|
| Station ID: <i>18</i> | | Latitude/Northing: <i>33.15383222</i> | | | Longitude/Easting: <i>-118.1813221</i> | | | Water Depth (ft): <i>40</i> (m): <i>12.1</i> | | | | |
| Weather Conditions: <i>Sunny, 50% cloud cover</i> | | | | | | | | Field Personnel: <i>RD, RW, TVG</i> | | | | |
| Wind Speed and Direction (see Beaufort Scale): <i>no wind</i> | | | | | | | | Recorded By: <i>Nick DaSilva</i> | | | | |
| Biological Activity (e.g., presence of fish, birds, macrophytes, phytoplankton): <i>few birds foraging</i> | | | | | | | | | | | | |
| Description of In-water activities (e.g., recreational boating, active discharges): <i>work boats passing long beach harbor entrance w/ whale watchers/catalina flyer</i> | | | | | | | | | | | | |
| In Situ Field Parameters ¹ and Water Sample Collection | | | | | | | | | | | | |
| Time | Depth (m) | Surface (S), Mid-depth (M), or Bottom (B) | DO (mg/L) | pH | Salinity (ppt) | Temp (°C) | Chemistry Sample Collected? (Y/N) | Physical Description of Sample ² | Analytes (circle one) | | Sample ID | |
| <i>10:07</i> | <i>38ft</i> | <i>B</i> | <i>5.97</i> | <i>7.74</i> | <i>32.93</i> | <i>16.56</i> | <i>Y^{CO}</i> | | <input checked="" type="radio"/> TSS only | <input type="radio"/> Full suite | <i>SP-RW-18-G-B-20150224</i> | |
| <i>10:08</i> | <i>22ft</i> | <i>M</i> | <i>6.58</i> | <i>7.71</i> | <i>32.91</i> | <i>16.64</i> | <i>Y^{CO}</i> | | <input checked="" type="radio"/> TSS only | <input type="radio"/> Full suite | <i>SP-RW-18-G-M-20150224</i> | |
| <i>10:09</i> | <i>1ft</i> | <i>S</i> | <i>7.17</i> | <i>7.77</i> | <i>31.05</i> | <i>16.96</i> | <i>Y</i> | | <input type="radio"/> TSS only | <input checked="" type="radio"/> Full suite | <i>SP-RW-18-G-S-20150224</i> | |
| | | | | | | | | | <input type="radio"/> TSS only | <input type="radio"/> Full suite | | |
| | | | | | | | | | <input type="radio"/> TSS only | <input type="radio"/> Full suite | | |
| | | | | | | | | | <input type="radio"/> TSS only | <input type="radio"/> Full suite | | |
| | | | | | | | | | <input type="radio"/> TSS only | <input type="radio"/> Full suite | | |
| QA/QC Samples Collected: Y / N | | Field duplicate (5% of project) / Field blank (1 during monitoring event) / Rinsate blank (1 during monitoring event) | | | | | | | <input type="radio"/> TSS only | | <input type="radio"/> Full suite | |
| Comments (include photographs taken, if any): | | | | | | | | | | | | |

Notes:

- Field measurements will be made in triplicate on 5 percent of measurements to ensure project DQOs are met. These measurements will be recorded on the next page.
- Description should include suspended or floating material, color, odor, or sheen.

Water Quality Sample Form

| Project Name: <i>TMDL Compliance WQ</i> | | | Project Number: <i>141205-01.10</i> | | | Date: <i>2/24/13</i> | | | Time: <i>12:15</i> | | | |
|--|--------------|---|-------------------------------------|-------------|--|----------------------|------------------------------------|---|-----------------------|-------------------|--|--|
| Station ID: <i>19</i> | | Latitude/Northing: <i>33.73667149</i> | | | Longitude/Easting: <i>-118.1315908</i> | | | Water Depth (ft): <i>28.5 (m): 8.8</i> | | | | |
| Weather Conditions: <i>Sunny, 5% cloud cover</i> | | | | | | | Field Personnel: <i>NJD/RW/TVB</i> | | | | | |
| Wind Speed and Direction (see Beaufort Scale): <i>~10 mph SE</i> | | | | | | | Recorded By: <i>Nick DaSilva</i> | | | | | |
| Biological Activity (e.g., presence of fish, birds, macrophytes, phytoplankton): <i>gulls sparse</i> | | | | | | | | | | | | |
| Description of In-water activities (e.g., recreational boating, active discharges): <i>shipping vessels anchored; recreational vessels</i> | | | | | | | | | | | | |
| In Situ Field Parameters ¹ and Water Sample Collection | | | | | | | | | | | | |
| Time | Depth (m) | Surface (S), Mid-depth (M), or Bottom (B) | DO (mg/L) | pH | Salinity (ppt) | Temp (°C) | Chemistry Sample Collected? (Y/N) | Physical Description of Sample ² | Analytes (circle one) | | Sample ID | |
| <i>12:14</i> | <i>28 ft</i> | <i>B</i> | <i>8.52</i> | <i>7.79</i> | <i>32.97</i> | <i>16.63</i> | <i>N Y^{co}</i> | | <i>TSS only</i> | <i>Full suite</i> | <i>SP-RW-G¹⁹-B-20150224</i> | |
| <i>12:16</i> | <i>14 ft</i> | <i>M</i> | <i>8.83</i> | <i>7.80</i> | <i>32.91</i> | <i>16.76</i> | <i>N Y^{co}</i> | | <i>TSS only</i> | <i>Full suite</i> | <i>SP-RW-G¹⁹-M-20150224</i> | |
| <i>12:17</i> | <i>1 ft</i> | <i>S</i> | <i>9.88</i> | <i>7.87</i> | <i>32.61</i> | <i>17.33</i> | <i>Y</i> | | <i>TSS only</i> | <i>Full suite</i> | <i>SP-RW-G¹⁹-S-20150224</i> | |
| | | | | | | | | | <i>TSS only</i> | <i>Full suite</i> | | |
| | | | | | | | | | <i>TSS only</i> | <i>Full suite</i> | | |
| | | | | | | | | | <i>TSS only</i> | <i>Full suite</i> | | |
| | | | | | | | | | <i>TSS only</i> | <i>Full suite</i> | | |
| QA/QC Samples Collected: <i>Y/N</i> | | Field duplicate (5% of project) / Field blank (1 during monitoring event) / Rinsate blank (1 during monitoring event) | | | | | | | <i>TSS only</i> | | <i>Full suite</i> | |
| Comments (include photographs taken, if any): | | | | | | | | | | | | |

Notes:

- Field measurements will be made in triplicate on 5 percent of measurements to ensure project DQOs are met. These measurements will be recorded on the next page.
- Description should include suspended or floating material, color, odor, or sheen.

Water Quality Sample Form

| Project Name: <i>TMDL compliance WQ</i> | | | Project Number: <i>141205-a.10</i> | | | Date: <i>2/24/15</i> | | | Time: <i>11:30</i> | | | |
|--|-------------|---|------------------------------------|-------------|---|----------------------|-----------------------------------|--|-----------------------|-------------------|------------------------------|--|
| Station ID: <i>20</i> | | Latitude/Northing: <i>33.72517972</i> | | | Longitude/Easting: <i>-117.15733101</i> | | | Water Depth (ft): <i>51</i> (m): <i>15.6</i> | | | | |
| Weather Conditions: <i>Sunny 5% Cloud Cover</i> | | | | | | | | Field Personnel: <i>NO/NV/RW</i> | | | | |
| Wind Speed and Direction (see Beaufort Scale): <i>Sunny, 2% Cloud Cover</i> | | | | | | | | Recorded By: <i>Nick DaSilva</i> | | | | |
| Biological Activity (e.g., presence of fish, birds, macrophytes, phytoplankton): <i>Gulls,</i> | | | | | | | | | | | | |
| Description of In-water activities (e.g., recreational boating, active discharges): | | | | | | | | | | | | |
| In Situ Field Parameters ¹ and Water Sample Collection | | | | | | | | | | | | |
| Time | Depth (m) | Surface (S), Mid-depth (M), or Bottom (B) | DO (mg/L) | pH | Salinity (ppt) | Temp (°C) | Chemistry Sample Collected? (Y/N) | Physical Description of Sample ² | Analytes (circle one) | | Sample ID | |
| <i>10:33</i> | <i>50ft</i> | <i>B</i> | <i>8.57</i> | <i>7.87</i> | <i>32.98</i> | <i>16.45</i> | <i>Y</i> | | <i>TSS only</i> | <i>Full suite</i> | <i>SP-RW-20-E-B-20150224</i> | |
| <i>10:34</i> | <i>25ft</i> | <i>M</i> | <i>8.75</i> | <i>7.87</i> | <i>32.85</i> | <i>16.55</i> | <i>Y</i> | | <i>TSS only</i> | <i>Full suite</i> | <i>SP-RW-20-G-20150224</i> | |
| <i>10:35</i> | <i>1ft</i> | <i>S</i> | <i>7.81</i> | <i>7.92</i> | <i>31.77</i> | <i>16.37</i> | <i>Y</i> | | <i>TSS only</i> | <i>Full suite</i> | <i>SP-RW-20-G-S-20150224</i> | |
| | | | | | | | | | <i>TSS only</i> | <i>Full suite</i> | | |
| | | | | | | | | | <i>TSS only</i> | <i>Full suite</i> | | |
| | | | | | | | | | <i>TSS only</i> | <i>Full suite</i> | | |
| | | | | | | | | | <i>TSS only</i> | <i>Full suite</i> | | |
| QA/QC Samples Collected: Y / N | | Field duplicate (5% of project) / Field blank (1 during monitoring event) / Rinsate blank (1 during monitoring event) | | | | | | | | <i>TSS only</i> | <i>Full suite</i> | |
| Comments (include photographs taken, if any): | | | | | | | | | | | | |

- Notes:
1. Field measurements will be made in triplicate on 5 percent of measurements to ensure project DQOs are met. These measurements will be recorded on the next page.
 2. Description should include suspended or floating material, color, odor, or sheen.



Water Quality Sample Form

| Project Name: <i>TMDL Compliance WQ</i> | | | Project Number: <i>141205-01.10</i> | | | Date: <i>2/24/15</i> | | Time: <i>09:15</i> | | | |
|---|--------------|---|-------------------------------------|-------------|--|----------------------|-------------------------------------|---|--|------------------------------|--|
| Station ID: <i>21</i> | | Latitude/Northing: <i>33.75644863</i> | | | Longitude/Easting: <i>-118.1933943</i> | | | Water Depth (ft): <i>3ft</i> (m): | | | |
| Weather Conditions: <i>sunny, with 5% cloud cover</i> | | | | | | | Field Personnel: <i>NO, RW, TVG</i> | | | | |
| Wind Speed and Direction (see Beaufort Scale): <i>3 mph, east</i> | | | | | | | Recorded By: <i>Nick DaSilva</i> | | | | |
| Biological Activity (e.g., presence of fish, birds, macrophytes, phytoplankton): <i>some birds, sparse, pelicans</i> | | | | | | | | | | | |
| Description of In-water activities (e.g., recreational boating, active discharges): <i>dredging upstream of sampling location, harbor fair boat</i> | | | | | | | | | | | |
| In Situ Field Parameters ¹ and Water Sample Collection | | | | | | | | | | | |
| Time | Depth (m) | Surface (S), Mid-depth (M), or Bottom (B) | DO (mg/L) | pH | Salinity (ppt) | Temp (°C) | Chemistry Sample Collected? (Y/N) | Physical Description of Sample ² | Analytes (circle one) | Sample ID | |
| <i>09:10</i> | <i>3ft</i> | <i>B</i> | <i>4.55</i> | <i>7.63</i> | <i>28.66</i> | <i>16.96</i> | <i>N Y^{CO}</i> | | <input checked="" type="radio"/> TSS only <input type="radio"/> Full suite | <i>CE-RW-21-G-B-20150924</i> | |
| <i>09:12</i> | <i>1.5ft</i> | <i>M</i> | <i>4.30</i> | <i>7.62</i> | <i>27.86</i> | <i>17.04</i> | <i>N Y^{CO}</i> | | <input checked="" type="radio"/> TSS only <input type="radio"/> Full suite | <i>CE-RW-21-G-M-20150924</i> | |
| <i>09:13</i> | <i>0ft</i> | <i>S</i> | <i>4.21</i> | <i>7.60</i> | <i>26.44</i> | <i>16.99</i> | <i>Y</i> | | <input type="radio"/> TSS only <input checked="" type="radio"/> Full suite | <i>CE-RW-21-G-M-20150924</i> | |
| | | | | | | | | | <input type="radio"/> TSS only <input type="radio"/> Full suite | | |
| | | | | | | | | | <input type="radio"/> TSS only <input type="radio"/> Full suite | | |
| | | | | | | | | | <input type="radio"/> TSS only <input type="radio"/> Full suite | | |
| | | | | | | | | | <input type="radio"/> TSS only <input type="radio"/> Full suite | | |
| QA/QC Samples Collected: <input checked="" type="radio"/> Y <input type="radio"/> N | | Field duplicate (5% of project) / Field blank (1 during monitoring event) / Rinsate blank (1 during monitoring event) | | | | | | | <input type="radio"/> TSS only <input type="radio"/> Full suite | | |
| Comments (include photographs taken, if any): | | | | | | | | | | | |

- Notes:
- Field measurements will be made in triplicate on 5 percent of measurements to ensure project DQOs are met. These measurements will be recorded on the next page.
 - Description should include suspended or floating material, color, odor, or sheen.



Water Quality Sample Form

| Project Name: <i>TMDL Compliance WQ</i> | | Project Number: <i>141205-01.10</i> | | Date: <i>2/24/15</i> | | Time: <i>8:25</i> | | | | |
|---|-------------------------------------|---|---------------------------------------|----------------------|------------------------------------|-------------------|-----------------------------------|---|--|------------------------------|
| Station ID: <i>22</i> | Latitude/Northing: <i>33.761013</i> | | Longitude/Easting: <i>-118.202111</i> | | Water Depth (ft): <i>3</i> | | (m): <i>9</i> | | | |
| Weather Conditions: <i>Sunny, 5% cloud cover</i> | | | | | Field Personnel: <i>RW, ND, TG</i> | | | | | |
| Wind Speed and Direction (see Beaufort Scale): <i><3 mph - 6 mph from N</i> | | | | | Recorded By: <i>Nick DaSilva</i> | | | | | |
| Biological Activity (e.g., presence of fish, birds, macrophytes, phytoplankton): <i>moderate bird density, no visible plant life/floating reeds</i> | | | | | | | | | | |
| Description of In-water activities (e.g., recreational boating, active discharges): <i>Barge dredging downstream of station (at bridge), Catalina Flyer</i> | | | | | | | | | | |
| In Situ Field Parameters ¹ and Water Sample Collection | | | | | | | | | | |
| Time | Depth (m) | Surface (S), Mid-depth (M), or Bottom (B) | DO (mg/L) | pH | Salinity (ppt) | Temp (°C) | Chemistry Sample Collected? (Y/N) | Physical Description of Sample ² | Analytes (circle one) | Sample ID |
| <i>8:26</i> | <i>3ft</i> | <i>B</i> | <i>2.98</i> | <i>7.47</i> | <i>30.92</i> | <i>16.88</i> | <i>NY^{CD}</i> | | <input checked="" type="radio"/> TSS only <input type="radio"/> Full suite | <i>LE-RW-22-G-B-20150224</i> |
| <i>8:27</i> | <i>1.5ft</i> | <i>M</i> | <i>3.36</i> | <i>7.52</i> | <i>24.93</i> | <i>16.86</i> | <i>NY^{CD}</i> | | <input checked="" type="radio"/> TSS only <input type="radio"/> Full suite | <i>LE-RW-22-G-M-20150224</i> |
| <i>8:31</i> | <i>0ft</i> | <i>S</i> | <i>4.03</i> | <i>7.60</i> | <i>20.22</i> | <i>16.57</i> | <i>Y</i> | | <input type="radio"/> TSS only <input checked="" type="radio"/> Full suite | <i>LE-RW-22-G-S-20150224</i> |
| | | | | | | | | | <input type="radio"/> TSS only <input type="radio"/> Full suite | |
| | | | | | | | | | <input type="radio"/> TSS only <input type="radio"/> Full suite | |
| | | | | | | | | | <input type="radio"/> TSS only <input type="radio"/> Full suite | |
| | | | | | | | | | <input type="radio"/> TSS only <input type="radio"/> Full suite | |
| QA/QC Samples Collected: <input checked="" type="radio"/> Y <input type="radio"/> N | | Field duplicate (5% of project) / Field blank (1 during monitoring event) / Rinsate blank (1 during monitoring event) | | | | | | <input type="radio"/> TSS only <input type="radio"/> Full suite | | |
| Comments (include photographs taken, if any): | | | | | | | | | | |

- Notes:
- Field measurements will be made in triplicate on 5 percent of measurements to ensure project DQOs are met. These measurements will be recorded on the next page.
 - Description should include suspended or floating material, color, odor, or sheen.

DQO Measurements

| Project Name: <u>TMDL Compliance WQ</u> | | | Project Number: <u>141205-01</u> | | | | |
|---|---|-------------------|----------------------------------|------------|----------------------|--------------|----------|
| Station ID: <u>1A-KW-04</u> | | Time: <u>1045</u> | | | Date: <u>2.24.15</u> | | |
| In Situ Field Parameters ¹ | | | | | | | |
| Time | Surface (S), Mid-depth (M), or Bottom (B) | Depth (m) | DO (mg/L) | pH (units) | Salinity (ppt) | Temp (°C) | Comments |
| <u>1045</u> | <u>S</u> | <u>1</u> | <u>7.5</u> | <u>8.1</u> | <u>32.8</u> | <u>17.1</u> | |
| <u>1046</u> | <u>S</u> | <u>1</u> | <u>7.5</u> | <u>8.1</u> | <u>32.8</u> | <u>17.1</u> | |
| <u>1046</u> | <u>S</u> | <u>1</u> | <u>7.5</u> | <u>8.1</u> | <u>32.8</u> | <u>17.1</u> | |
| Average | | <u>1</u> | <u>7.5</u> | <u>8.1</u> | <u>32.8</u> | <u>17.1</u> | |
| Difference between max and min | | <u>0</u> | <u>0</u> | <u>0</u> | <u>0</u> | <u>0</u> | |
| RPD | | <u>0</u> | <u>0</u> | <u>0</u> | <u>0</u> | <u>0</u> | |
| Precision | | ± 0.1 | 5 percent | ± 0.2 | ± 0.2 | ± 0.5 °C | |
| DQO Met? (Y/N) ² | | <u>Y</u> | <u>Y</u> | <u>Y</u> | <u>Y</u> | <u>Y</u> | |
| Time | Surface (S), Mid-depth (M), or Bottom (B) | Depth (m) | DO (mg/L) | pH | Salinity (ppt) | Temp (°C) | Comments |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| Average | | | | | | | |
| Difference between max and min | | | | | | | |
| RPD | | | | | | | |
| Precision | | ± 0.1 | 5 percent | ± 0.2 | ± 0.2 | ± 0.5 °C | |
| DQO Met? (Y/N) ² | | | | | | | |
| Comments: | | | | | | | |

Notes:

- Field measurements will be made in triplicate on 5 percent of measurements to ensure project DQOs are met. Each result will be recorded along with the average of the three results, the difference between the largest and smallest result, and the percent difference between the largest and smallest result. The percent difference will be calculated as follows:

$$\text{Percent difference} = 100 * (\text{largest} - \text{smallest}) / \text{average}$$

Triplicate measurements, the average of the results, and percent difference will be recorded on the field data sheet. The percent difference, as appropriate, will be compared against the precision criteria established for field measurements in Table 7.

- If no, write corrective actions taken in the comments box (e.g., re-calibrated instrument, etc.) and re-measure.

DQO Measurements

| Project Name: | | | | Project Number: <u>141205-01.01</u> | | | |
|---------------------------------------|---|-------------------|------------------|-------------------------------------|----------------|--------------------------------|----------|
| Station ID: <u>JB-RW-13</u> | | Time: <u>0935</u> | | Date: <u>2/24/15</u> | | | |
| In Situ Field Parameters ¹ | | | | | | | |
| Time | Surface (S), Mid-depth (M), or Bottom (B) | Depth (m) | DO (mg/L) | pH (units) | Salinity (ppt) | Temp (°C) | Comments |
| <u>0935</u> | <u>S</u> | <u>1m</u> | <u>8.9</u> | <u>8.1</u> | <u>35.1</u> | <u>62.33°F</u> <u>16.84</u> | |
| <u>0935</u> | <u>S</u> | <u>1m</u> | <u>8.6</u> | <u>8.1</u> | <u>35.1</u> | <u>62.33°F</u> <u>16.84</u> | |
| <u>0940</u> | <u>S</u> | <u>1m</u> | <u>8.5</u> | <u>8.2</u> | <u>35.1</u> | <u>62.33°F</u> <u>16.84</u> | |
| Average | | <u>1</u> | <u>8.7</u> | <u>8.2</u> | <u>35.1</u> | <u>16.84</u> | |
| Difference between max and min | | <u>0</u> | <u>0.4</u> | <u>0.1</u> | <u>0</u> | <u>0</u> | |
| RPD | | <u>0</u> | <u>0</u> | <u>0</u> | <u>0</u> | <u>0</u> | |
| Precision | | <u>± 0.1</u> | <u>5 percent</u> | <u>± 0.2</u> | <u>± 0.2</u> | <u>± 0.5 °C</u> | |
| DQO Met? (Y/N) ² | | <u>Y</u> | <u>Y</u> | <u>Y</u> | <u>Y</u> | <u>Y</u> | |
| Time | Surface (S), Mid-depth (M), or Bottom (B) | Depth (m) | DO (mg/L) | pH | Salinity (ppt) | Temp (°C) | Comments |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| Average | | | | | | | |
| Difference between max and min | | | | | | | |
| RPD | | | | | | | |
| Precision | | <u>± 0.1</u> | <u>5 percent</u> | <u>± 0.2</u> | <u>± 0.2</u> | <u>± 0.5 °C</u> | |
| DQO Met? (Y/N) ² | | | | | | | |
| Comments: | | | | | | | |

Notes:

- Field measurements will be made in triplicate on 5 percent of measurements to ensure project DQOs are met. Each result will be recorded along with the average of the three results, the difference between the largest and smallest result, and the percent difference between the largest and smallest result. The percent difference will be calculated as follows:

$$\text{Percent difference} = 100 * (\text{largest} - \text{smallest}) / \text{average}$$

Triplicate measurements, the average of the results, and percent difference will be recorded on the field data sheet. The percent difference, as appropriate, will be compared against the precision criteria established for field measurements in Table 7.

- If no, write corrective actions taken in the comments box (e.g., re-calibrated instrument, etc.) and re-measure.

DQO Measurements

| Project Name: <u>TMDL Compliance WQA</u> | | | Project Number: <u>141205-01.10</u> | | | | |
|--|---|--------------|-------------------------------------|--------------|----------------------|-----------------|----------|
| Station ID: <u>20</u> | | Time: | | | Date: <u>8/24/15</u> | | |
| In Situ Field Parameters ¹ | | | | | | | |
| Time | Surface (S), Mid-depth (M), or Bottom (B) | Depth (m) | DO (mg/L) | pH (units) | Salinity (ppt) | Temp (°C) | Comments |
| <u>11:36</u> | <u>S</u> | <u>1H</u> | <u>9.47</u> | <u>7.84</u> | <u>31.81</u> | <u>16.51</u> | |
| <u>11:38</u> | <u>S</u> | <u>1H</u> | <u>9.48</u> | <u>7.85</u> | <u>31.83</u> | <u>16.51</u> | |
| <u>11:39</u> | <u>S</u> | <u>7H</u> | <u>9.47</u> | <u>7.84</u> | <u>31.80</u> | <u>16.55</u> | |
| Average | | <u>1H</u> | <u>9.473</u> | <u>7.843</u> | <u>31.83</u> | <u>16.52</u> | |
| Difference between max and min | | <u>0</u> | <u>.01</u> | <u>.01</u> | <u>.03</u> | <u>.04</u> | |
| RPD | | <u>0%</u> | <u>.1%</u> | <u>.1%</u> | <u>.09</u> | <u>.002</u> | |
| Precision | | <u>± 0.1</u> | <u>5 percent</u> | <u>± 0.2</u> | <u>± 0.2</u> | <u>± 0.5 °C</u> | |
| DQO Met? (Y/N) ² | | <u>Y</u> | <u>Y</u> | <u>Y</u> | <u>Y</u> | <u>Y</u> | |
| Time | Surface (S), Mid-depth (M), or Bottom (B) | Depth (m) | DO (mg/L) | pH | Salinity (ppt) | Temp (°C) | Comments |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| Average | | | | | | | |
| Difference between max and min | | | | | | | |
| RPD | | | | | | | |
| Precision | | <u>± 0.1</u> | <u>5 percent</u> | <u>± 0.2</u> | <u>± 0.2</u> | <u>± 0.5 °C</u> | |
| DQO Met? (Y/N) ² | | | | | | | |
| Comments: | | | | | | | |

Notes:

- Field measurements will be made in triplicate on 5 percent of measurements to ensure project DQOs are met. Each result will be recorded along with the average of the three results, the difference between the largest and smallest result, and the percent difference between the largest and smallest result. The percent difference will be calculated as follows:

$$\text{Percent difference} = 100 * (\text{largest} - \text{smallest}) / \text{average}$$

Triplicate measurements, the average of the results, and percent difference will be recorded on the field data sheet. The percent difference, as appropriate, will be compared against the precision criteria established for field measurements in Table 7.

- If no, write corrective actions taken in the comments box (e.g., re-calibrated instrument, etc.) and re-measure.



DQO Measurements

| Project Name: <u>PMOL Compliance WQ</u> | | | Project Number: <u>141705-01.10</u> | | | | |
|---|---|--------------------|-------------------------------------|--------------|----------------------|---------------|----------|
| Station ID: <u>21</u> | | Time: <u>09:15</u> | | | Date: <u>2/24/15</u> | | |
| In Situ Field Parameters ¹ | | | | | | | |
| Time | Surface (S), Mid-depth (M), or Bottom (B) | Depth (m) | DO (mg/L) | pH (units) | Salinity (ppt) | Temp (°C) | Comments |
| <u>09:15</u> | <u>S</u> | <u>0</u> | <u>4.37</u> | <u>7.62</u> | <u>23.00</u> | <u>16.77</u> | |
| <u>09:15</u> | <u>M</u> | <u>1.5</u> | <u>4.20</u> | <u>7.59</u> | <u>25.04</u> | <u>16.99</u> | |
| <u>09:15</u> | <u>B</u> | <u>3</u> | <u>4.28</u> | <u>7.57</u> | <u>29.59</u> | <u>16.91</u> | |
| Average | | <u>1.5</u> | <u>4.283</u> | <u>7.593</u> | <u>25.876</u> | <u>16.89</u> | |
| Difference between max and min | | <u>3</u> | <u>0.09</u> | <u>0.05</u> | <u>6.59</u> | <u>0.22</u> | |
| RPD | | | <u>2.101</u> | | <u>25.46</u> | | |
| Precision | | ± 0.1 | 5 percent | ± 0.2 | ± 0.2 | ± 0.5 °C | |
| DQO Met? (Y/N) ² | | | | | | | |
| Time | Surface (S), Mid-depth (M), or Bottom (B) | Depth (m) | DO (mg/L) | pH | Salinity (ppt) | Temp (°C) | Comments |
| <u>09:30</u> | <u>S</u> | <u>.5</u> | <u>4.44</u> | <u>7.55</u> | <u>22.97</u> | <u>16.89</u> | |
| <u>09:30</u> | <u>S</u> | <u>.5</u> | <u>4.45</u> | <u>7.55</u> | <u>22.96</u> | <u>16.90</u> | |
| <u>09:30</u> | <u>S</u> | <u>.5</u> | <u>4.45</u> | <u>7.55</u> | <u>22.94</u> | <u>16.91</u> | |
| Average | | <u>.5</u> | <u>4.446</u> | <u>7.55</u> | <u>22.956</u> | <u>16.90</u> | |
| Difference between max and min | | <u>0</u> | <u>.01</u> | <u>0</u> | <u>.03</u> | <u>.02</u> | |
| RPD | | <u>0%</u> | <u>0.2%</u> | <u>0%</u> | <u>1001</u> | <u>.118°C</u> | |
| Precision | | ± 0.1 | 5 percent | ± 0.2 | ± 0.2 | ± 0.5 °C | |
| DQO Met? (Y/N) ² | | <u>Y</u> | <u>Y</u> | <u>Y</u> | <u>Y</u> | <u>Y</u> | |
| Comments: | | | | | | | |

Notes:

- Field measurements will be made in triplicate on 5 percent of measurements to ensure project DQOs are met. Each result will be recorded along with the average of the three results, the difference between the largest and smallest result, and the percent difference between the largest and smallest result. The percent difference will be calculated as follows:

$$\text{Percent difference} = 100 * (\text{largest} - \text{smallest}) / \text{average}$$

Triplicate measurements, the average of the results, and percent difference will be recorded on the field data sheet. The percent difference, as appropriate, will be compared against the precision criteria established for field measurements in Table 7.

- If no, write corrective actions taken in the comments box (e.g., re-calibrated instrument, etc.) and re-measure.

APPENDIX A-2

SEDIMENT SAMPLING FIELD FORMS

APPENDIX B

FIELD DATA SHEETS

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FIELD SAMPLING QA CHECKLIST

Station Location: B13-8318

Arrival Date/Time: 7/13/13 1056

Site Acceptable for Sampling: (Y) or N If No, reason: _____

Mark each box with Y, N, or NA

Field Procedures

1. Upon arriving at the sampling location, the following site observations are recorded:

| | |
|--|---|
| Is site accessible? | Y |
| Depth and benthic salinity recorded. Within limits? (>3m embayments; ≥25pt salinity) | Y |
| Vessel has been anchored (or tied off) | Y |
| Station DGPS coordinates (± 3 m) recorded. | Y |
| Station occupation form completed | Y |

2. Sampling procedures:

| | |
|---|---|
| Field staff wearing fresh, powder free nitrile gloves | Y |
| Equipment washed/rinsed from previous station | Y |
| Vessel engine has been shut off for 5 minutes prior to sampling | Y |
| Sampling instrument washed with Alconox | Y |
| Sampling instrument given site water rinse prior to deployment | Y |
| Sample bottles correctly labeled (minimum: station id, date, agency, parameter) | Y |
| Sample bottles are lab certified, contaminant free | Y |
| Samples containers are the correct type in accordance with Table 5-2 in the Bight'13 QAM | Y |
| Sample condition meets acceptability criteria (e.g. no surface disturbance, leakage, canting, or washing) | Y |
| Sample penetration meets acceptability criteria (e.g. minimum 5cm for chem/tox; 7cm for infauna) | Y |
| Record grab disposition / characteristic information | Y |
| Samples collected in the following order: infaunal, chemistry, toxicity | Y |
| Chem/Tox samples collected from top 5cm, and 1cm from sides of grab | Y |
| Sediment evenly distributed among containers | Y |
| Stainless steel scoop used to distribute sediment | Y |
| Staff avoided contaminating samples at all times | Y |
| COC seals have been placed over individual sample bottles | Y |
| Site replicate (i.e., duplicate) collected (if applicable) | — |

FIELD SAMPLING QA CHECKLIST

3. Data Recording:

| | |
|---|---|
| Photo of sample grab(s) taken | Y |
| Samples properly logged on COC form | |
| Proper persons have signed the COC | |
| Field notes have been recorded for site before moving to the next | Y |

4. Sample Storage:

| | |
|---|---|
| Toxicity samples properly stored on wet ice | Y |
| Chemistry samples properly stored on dry ice | Y |
| Infaunal samples properly relaxed and preserved with formalin | Y |
| Cooler is taped shut for transport to lab | |
| Completed COC is included in plastic bag in cooler | |

5. PPE properly removed and disposed of upon station completion Y

Additional Notes:

Signature of QA/QC Personnel:

John Rudolph

Date/Time:

7/13/13 1125

Print Name/Company:

John Rudolph AMEC

STATION OCCUPATION

BIGHT'13

Agency Code POLA/POLB

Weather

Clear
 Overcast
 Partly cloudy
 Drizzle

Rain
 Thunderstorm
 Fog

Sea State

Calm
 Choppy
 Rough

Salinity (ppt)

At estuary Sites only

Station ID D13-8318

Date 7/13/13

Vessel Name Early Bird

Arrival Time 1056
 (hh:mm)

Abandoned site?

Y or N (if Y explain in comments)

Station Fail Code

Wind

Speed (kts) 4.9
 Direction (4) SE

Swell

Period (s) 0
 Height (ft) 0
 Direction (4) 0

Nav Type

DGPS
 GPS

Station Comments

Equipment Type

Van Veen
 Tandem Van Veen

GRAB EVENTS

Sample types (Chk all that apply)

| # | Time (hh:mm) | Latitude (DD°MM.mmm) | Longitude (DD°MM.mmm) | Depth (m) | Distance to target (m) | Grab Fail Code (6) | Penetration (cm) | Composition (1) | Odor (2) | Color (3) | Shell Hash (Y/N) | Infauna | Sed Chem | Grain Size | Sed Tox | Debris (Y/N) | Photos |
|----------------------|--------------|----------------------|-----------------------|-----------|------------------------|--------------------|------------------|-----------------|----------|-----------|------------------|---------|----------|------------|---------|--------------|-----------|
| | 1057 | 33.72421 | -118.22437 | 18.1 | 35 | None | 16 | Silt | N | Olive | N | X | X | X | | N | 0924-0925 |
| Grab Event Comments: | | | | | | | | | | | | | | | | | |
| | 1110 | 33.72418 | -118.22432 | 18.2 | 29 | None | 16 | Silt | N | Olive | N | | | | X | N | 0926-0928 |
| Grab Event Comments: | | | | | | | | | | | | | | | | | |
| Grab Event Comments: | | | | | | | | | | | | | | | | | |
| Grab Event Comments: | | | | | | | | | | | | | | | | | |
| Grab Event Comments: | | | | | | | | | | | | | | | | | |

- 1 Sediment Composition: Coarse sand, Fine sand, Silt/clay, Gravel, Cobble, Mixed
- 2 Sediment Odor: None (N), Petroleum (P), Hydrogen sulfide (HS), Humic (HU), Other (O, describe in comments)
- 3 Sediment Color: Brown, Gray, Black, Olive green, Red
- 4 Directions: N, NE, E, SE, S, SW, W, NW, or XX for calm
- 5 Station Fail codes: None, Temporary - sea conditions (comment req.), Temporary - atmosphere (comment req.), Temporary - mechanical (comment req.), Pre-abandoned (comment req.), Site On Land (comment req.), Vessel safety (comment req.), No Access Allowed (comment req.), Prolonged rough seas, Bottom salinity <25psu, Too Shallow (comment req.), Too many Event Failures (comment req.), Anthropogenic obstruction (comment req.), Natural hard bottom obstructions (comment req.), Not sampleable - other (comment req.)

Grab Fail codes: None, Outside Radius Limit, Outside Target Depth, Premature closure, Flipped, Rocks/gravel, Dead shell, Live animal (comment req.), Debris (comment req.), Poor closure - other (comment req.), Heavily Canted, Large Humping, Washed, Disturbed Surface, < 5 cm Penetration, <= 7 cm Penetration - biology only

FIELD SAMPLING QA CHECKLIST

Station Location: B13-8322

Arrival Date/Time: 7/13/13 1008

Site Acceptable for Sampling: or N If No, reason: _____

Mark each box with Y, N, or NA

Field Procedures

1. Upon arriving at the sampling location, the following site observations are recorded:

| | |
|--|---|
| Is site accessible? | Y |
| Depth and benthic salinity recorded. Within limits? (>3m embayments; ≥25pt salinity) | Y |
| Vessel has been anchored (or tied off) | Y |
| Station DGPS coordinates (± 3 m) recorded | Y |
| Station occupation form completed | Y |

2. Sampling procedures:

| | |
|---|---|
| Field staff wearing fresh, powder free nitrile gloves | Y |
| Equipment washed/rinsed from previous station | Y |
| Vessel engine has been shut off for 5 minutes prior to sampling | Y |
| Sampling instrument washed with Alconox | Y |
| Sampling instrument given site water rinse prior to deployment | Y |
| Sample bottles correctly labeled (minimum: station id, date, agency, parameter) | Y |
| Sample bottles are lab certified, contaminant free | Y |
| Samples containers are the correct type in accordance with Table 5-2 in the Bight'13 QAM | Y |
| Sample condition meets acceptability criteria (e.g. no surface disturbance, leakage, canting, or washing) | Y |
| Sample penetration meets acceptability criteria (e.g. minimum 5cm for chem/tox; 7cm for infauna) | Y |
| Record grab disposition / characteristic information | Y |
| Samples collected in the following order: infaunal, chemistry, toxicity | Y |
| Chem/Tox samples collected from top 5cm, and 1cm from sides of grab | Y |
| Sediment evenly distributed among containers | Y |
| Stainless steel scoop used to distribute sediment | Y |
| Staff avoided contaminating samples at all times | Y |
| COC seals have been placed over individual sample bottles | Y |
| Site replicate (i.e., duplicate) collected (if applicable) | — |

FIELD SAMPLING QA CHECKLIST

3. Data Recording:

| | |
|---|---|
| Photo of sample grab(s) taken | Y |
| Samples properly logged on COC form | |
| Proper persons have signed the COC | |
| Field notes have been recorded for site before moving to the next | Y |

4. Sample Storage:

| | |
|---|---|
| Toxicity samples properly stored on wet ice | Y |
| Chemistry samples properly stored on dry ice | Y |
| Infaunal samples properly relaxed and preserved with formalin | Y |
| Cooler is taped shut for transport to lab | |
| Completed COC is included in plastic bag in cooler | |

5. PPE properly removed and disposed of upon station completion Y

Additional Notes:

Signature of QA/QC Personnel:

John Rudolph

Date/Time:

7/13/13 1047

Print Name/Company:

John Rudolph AMEC

STATION OCCUPATION

BIGHT'13

Agency Code POLA/POLO

Weather

Clear
Overcast
Partly cloudy
Drizzle

Rain
Thunderstorm
Fog

Sea State

Calm
Choppy
Rough

Salinity (ppt)

At estuary Sites only

Station ID B13-8322

Date 7/13/13

Vessel Name Early Bird

Arrival Time 1008
(hh:mm)

Abandoned site?

Y or N (If Y explain in comments)

Station Fail Code

Wind

Speed (kts) 2.1
Direction (4) SE

Swell

Period (s) 0
Height (ft) 0
Direction (4) 0

Nav Type

DGPS
GPS

Equipment Type

Van Veen
Tandem Van Veen

Station Comments

GRAB EVENTS

Sample types (Chk all that apply)

| # | Time (hh:mm) | Latitude (DD°MM.mmmmm) | Longitude (DD°MM.mmmmm) | Depth (m) | Distance to target (m) | Grab Fail Code (6) | Penetration (cm) | Composition (1) | Odor (2) | Color (3) | Shell Hash (Y/N) | Infauna | Sed Chem | Grain Size | Sed Tox | Debris (Y/N) | Photos |
|----------------------|--------------|------------------------|-------------------------|-----------|------------------------|--------------------|------------------|-----------------|----------|-----------|------------------|---------|----------|------------|---------|--------------|-----------|
| | 1011 | 33.72762 | -118.21274 | 20.9 | 24 | None | 16 | Silt | N | Olive | N | X | X | X | | N | 0919-0920 |
| Grab Event Comments: | | | | | | | | | | | | | | | | | |
| | 1025 | 33.72757 | -118.21271 | 20.5 | 27 | None | 16 | Silt | N | Olive | N | | | | X | N | 0921-0923 |
| Grab Event Comments: | | | | | | | | | | | | | | | | | |
| Grab Event Comments: | | | | | | | | | | | | | | | | | |
| Grab Event Comments: | | | | | | | | | | | | | | | | | |
| Grab Event Comments: | | | | | | | | | | | | | | | | | |

- Sediment Composition: Coarse sand, Fine sand, Silt/clay, Gravel, Cobble, Mixed
 - Sediment Odor: None (N), Petroleum (P), Hydrogen sulfide (HS), Humic (HU), Other (O, describe in comments)
 - Sediment Color: Brown, Gray, Black, Olive green, Red
 - Directions: N, NE, E, SE, S, SW, W, NW, or XX for calm
 - Station Fail codes: None, Temporary - sea conditions (comment req.), Temporary - atmosphere (comment req.), Temporary - mechanical (comment req.), Pre-abandoned (comment req.), Site On Land (comment req.), Vessel safety (comment req.), No Access Allowed (comment req.), Prolonged rough seas, Bottom salinity <25psu, Too Shallow (comment req.), Too many Event Failures (comment req.), Anthropogenic obstruction (comment req.), Natural hard bottom obstructions (comment req.), Not sampleable - other (comment req.)
- Grab Fail codes: None, Outside Radius Limit, Outside Target Depth, Premature closure, Flipped, Rocks/gravel, Dead shell, Live animal (comment req.), Debris (comment req.), Poor closure - other (comment req.), Heavily Canted, Large Humping, Washed, Disturbed Surface, < 5 cm Penetration, <= 7 cm Penetration - biology only

FIELD SAMPLING QA CHECKLIST

Station Location: B13-8356

Arrival Date/Time: 7/13/13 0920

Site Acceptable for Sampling: Y or N If No, reason: _____

Mark each box with Y, N, or NA

Field Procedures

1. Upon arriving at the sampling location, the following site observations are recorded:

| | |
|--|---|
| Is site accessible? | Y |
| Depth and benthic salinity recorded. Within limits? (>3m embayments; ≥25pt salinity) | Y |
| Vessel has been anchored (or tied off) | Y |
| Station DGPS coordinates (± 3 m) recorded | Y |
| Station occupation form completed | Y |

2. Sampling procedures:

| | |
|---|---|
| Field staff wearing fresh, powder free nitrile gloves | Y |
| Equipment washed/rinsed from previous station | Y |
| Vessel engine has been shut off for 5 minutes prior to sampling | Y |
| Sampling instrument washed with Alconox | Y |
| Sampling instrument given site water rinse prior to deployment | Y |
| Sample bottles correctly labeled (minimum: station id, date, agency, parameter) | Y |
| Sample bottles are lab certified, contaminant free | Y |
| Samples containers are the correct type in accordance with Table 5-2 in the Bight' 13 QAM | Y |
| Sample condition meets acceptability criteria (e.g. no surface disturbance, leakage, canting, or washing) | Y |
| Sample penetration meets acceptability criteria (e.g. minimum 5cm for chem/tox; 7cm for infauna) | Y |
| Record grab disposition / characteristic information | Y |
| Samples collected in the following order: infaunal, chemistry, toxicity | Y |
| Chem/Tox samples collected from top 5cm, and 1cm from sides of grab | Y |
| Sediment evenly distributed among containers | Y |
| Stainless steel scoop used to distribute sediment | Y |
| Staff avoided contaminating samples at all times | Y |
| COC seals have been placed over individual sample bottles | Y |
| Site replicate (i.e., duplicate) collected (if applicable) | — |

FIELD SAMPLING QA CHECKLIST

3. Data Recording:

| | |
|---|---|
| Photo of sample grab(s) taken | Y |
| Samples properly logged on COC form | |
| Proper persons have signed the COC | |
| Field notes have been recorded for site before moving to the next | Y |

4. Sample Storage:

| | |
|---|---|
| Toxicity samples properly stored on wet ice | Y |
| Chemistry samples properly stored on dry ice | Y |
| Infaunal samples properly relaxed and preserved with formalin | Y |
| Cooler is taped shut for transport to lab | |
| Completed COC is included in plastic bag in cooler | |

5. PPE properly removed and disposed of upon station completion Y

Additional Notes:

Signature of QA/QC Personnel:

John Rudolph

Date/Time:

7/13/13 0916

Print Name/Company:

John Rudolph AMEC

STATION OCCUPATION

BIGHT'13

Agency Code POLA/POLO

Weather

Clear
 Overcast
 Partly cloudy
 Drizzle

Rain
 Thunderstorm
 Fog

Sea State

Calm
 Choppy
 Rough

Salinity (ppt)

At estuary Sites only

Station ID B13-8356

Vessel Name Early Bird

Date 7/13/13

Arrival Time 0920
 (hh:mm)

Abandoned site?
 Y or N (if Y explain in comments)

Station Fail Code

Wind

Speed (kts) 3.8
 Direction (4) SE

Swell

Period (s) 0
 Height (ft) 0
 Direction (4) 0

Nav Type

DGPS
 GPS

Station Comments

Equipment Type

Van Veen
 Tandem Van Veen

GRAB EVENTS

Sample types (Chk all that apply)

| # | Time (hh:mm) | Latitude (DD°MM.mmmmm) | Longitude (DD°MM.mmmmm) | Depth (m) | Distance to target (m) | Grab Fail Code (6) | Penetration (cm) | Composition (1) | Odor (2) | Color (3) | Shell Hash (Y/N) | Infauna | Sed Chem | Grain Size | Sed Tox | Debris (Y/N) | Photos |
|---|----------------------|------------------------|-------------------------|-----------|------------------------|--------------------|------------------|-----------------|----------|-----------|------------------|---------|----------|------------|---------|--------------|-----------|
| | 0922 | 33.74337 | -118.20448 | 18.9 | 48 | None | 16 | Silt | N | Olive | N | X | X | X | | N | 0914-0915 |
| | Grab Event Comments: | | | | | | | | | | | | | | | | |
| | 0937 | 33.74346 | -118.20447 | 19.0 | 52 | None | 16 | Silt | N | Olive | N | | | | X | N | 0916-0918 |
| | Grab Event Comments: | | | | | | | | | | | | | | | | |
| | Grab Event Comments: | | | | | | | | | | | | | | | | |
| | Grab Event Comments: | | | | | | | | | | | | | | | | |
| | Grab Event Comments: | | | | | | | | | | | | | | | | |

- Sediment Composition: Coarse sand, Fine sand, Silt/clay, Gravel, Cobble, Mixed
 - Sediment Odor: None (N), Petroleum (P), Hydrogen sulfide (HS), Humic (HU), Other (O, describe in comments)
 - Sediment Color: Brown, Gray, Black, Olive green, Red
 - Directions: N, NE, E, SE, S, SW, W, NW, or XX for calm
 - Station Fail codes: None, Temporary - sea conditions (comment req.), Temporary - atmosphere (comment req.), Temporary - mechanical (comment req.), Pre-abandoned (comment req.), Site On Land (comment req.), Vessel safety (comment req.), No Access Allowed (comment req.), Prolonged rough seas, Bottom salinity <25psu, Too Shallow (comment req.), Too many Event Failures (comment req.), Anthropogenic obstruction (comment req.), Natural hard bottom obstructions (comment req.), Not sampleable - other (comment req.)
- Grab Fail codes: None, Outside Radius Limit, Outside Target Depth, Premature closure, Flipped, Rocks/gravel, Dead shell, Live animal (comment req.), Debris (comment req.), Poor closure - other (comment req.), Heavily Canted, Large Humping, Washed, Disturbed Surface, < 5 cm Penetration, <= 7 cm Penetration - biology only

FIELD SAMPLING QA CHECKLIST

Station Location: B13-8365

Arrival Date/Time: 7/13/13 0833

Site Acceptable for Sampling: (Y) or N If No, reason: _____

Mark each box with Y, N, or NA

Field Procedures

1. Upon arriving at the sampling location, the following site observations are recorded:

| | |
|--|---|
| Is site accessible? | Y |
| Depth and benthic salinity recorded. Within limits? (>3m embayments; ≥25pt salinity) | Y |
| Vessel has been anchored (or tied off) | Y |
| Station DGPS coordinates (± 3 m) recorded | Y |
| Station occupation form completed | Y |

2. Sampling procedures:

| | |
|---|---|
| Field staff wearing fresh, powder free nitrile gloves | Y |
| Equipment washed/rinsed from previous station | Y |
| Vessel engine has been shut off for 5 minutes prior to sampling | Y |
| Sampling instrument washed with Alconox | Y |
| Sampling instrument given site water rinse prior to deployment | Y |
| Sample bottles correctly labeled (minimum: station id, date, agency, parameter) | Y |
| Sample bottles are lab certified, contaminant free | Y |
| Samples containers are the correct type in accordance with Table 5-2 in the Bight' 13 QAM | Y |
| Sample condition meets acceptability criteria (e.g. no surface disturbance, leakage, canting, or washing) | Y |
| Sample penetration meets acceptability criteria (e.g. minimum 5cm for chem/tox; 7cm for infauna) | Y |
| Record grab disposition / characteristic information | Y |
| Samples collected in the following order: infaunal, chemistry, toxicity | Y |
| Chem/Tox samples collected from top 5cm, and 1cm from sides of grab | Y |
| Sediment evenly distributed among containers | Y |
| Stainless steel scoop used to distribute sediment | Y |
| Staff avoided contaminating samples at all times | Y |
| COC seals have been placed over individual sample bottles | Y |
| Site replicate (i.e., duplicate) collected (if applicable) | + |

FIELD SAMPLING QA CHECKLIST

3. Data Recording:

| | |
|---|---|
| Photo of sample grab(s) taken | Y |
| Samples properly logged on COC form | |
| Proper persons have signed the COC | |
| Field notes have been recorded for site before moving to the next | Y |

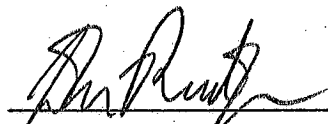
4. Sample Storage:

| | |
|---|---|
| Toxicity samples properly stored on wet ice | Y |
| Chemistry samples properly stored on dry ice | Y |
| Infaunal samples properly relaxed and preserved with formalin | Y |
| Cooler is taped shut for transport to lab | |
| Completed COC is included in plastic bag in cooler | |

5. PPE properly removed and disposed of upon station completion Y

Additional Notes:

Signature of QA/QC Personnel:



Date/Time:

7/13/13 0914

Print Name/Company:

John Rudolph AMEC

STATION OCCUPATION

BIGHT'13

Agency Code POLA/POLB

Weather

Clear
 Overcast
 Partly cloudy
 Drizzle

Rain
 Thunderstorm
 Fog

Sea State

Calm
 Choppy
 Rough

Salinity (ppt)

At estuary Sites only

Station ID R13-8365

Date 7/13/13

Vessel Name Early Bird

Arrival Time 0833
(hh:mm)

Abandoned site?

Y or N (If Y explain in comments)

Station Fail Code

Wind

Speed (kts) 3.0
 Direction (4) SE

Swell

Period (s) 0
 Height (ft) 0
 Direction (4) 0

Nav Type

DGPS
 GPS

Station Comments

Equipment Type

Van Veen
 Tandem Van Veen

GRAB EVENTS

Sample types (Chk all that apply)

| # | Time (hh:mm) | Latitude (DD°MM.mmmmm) | Longitude (DD°MM.mmmmm) | Depth (m) | Distance to target (m) | Grab Fail Code (6) | Penetration (cm) | Composition (1) | Odor (2) | Color (3) | Shell Hash (Y/N) | Infauna | Sed Chem | Grain Size | Sed Tox | Debris (Y/N) | Photos |
|---|----------------------|------------------------|-------------------------|-----------|------------------------|--------------------|------------------|-----------------|----------|-----------|------------------|---------|----------|------------|---------|--------------|-----------|
| | 0837 | 33.74767 | -118.19819 | 15.5 | 19 | None | 16 | Silt | N | Olive | N | X | X | X | | N | 0910-0911 |
| | Grab Event Comments: | | | | | | | | | | | | | | | | |
| | 0853 | 33.74776 | -118.19804 | 15.3 | 18 | None | 16 | Silt | N | Olive | N | | | | X | Y | 0912-0917 |
| | Grab Event Comments: | | | | | | | | | | | | | | | | |
| | Grab Event Comments: | | | | | | | | | | | | | | | | |
| | Grab Event Comments: | | | | | | | | | | | | | | | | |
| | Grab Event Comments: | | | | | | | | | | | | | | | | |

- Sediment Composition: Coarse sand, Fine sand, Silt/clay, Gravel, Cobble, Mixed
- Sediment Odor: None (N), Petroleum (P), Hydrogen sulfide (HS), Humic (HU), Other (O, describe in comments)
- Sediment Color: Brown, Gray, Black, Olive green, Red
- Directions: N, NE, E, SE, S, SW, W, NW, or XX for calm
- Station Fail codes: None, Temporary - sea conditions (comment req.), Temporary - atmosphere (comment req.), Temporary - mechanical (comment req.), Pre-abandoned (comment req.), Site On Land (comment req.), Vessel safety (comment req.), No Access Allowed (comment req.), Prolonged rough seas, Bottom salinity <25psu, Too Shallow (comment req.), Too many Event Failures (comment req.), Anthropogenic obstruction (comment req.), Natural hard bottom obstructions (comment req.), Not sampleable - other (comment req.)

Grab Fail codes: None, Outside Radius Limit, Outside Target Depth, Premature closure, Flipped, Rocks/gravel, Dead shell, Live animal (comment req.), Debris (comment req.), Poor closure - other (comment req.), Heavily Canted, Large Humping, Washed, Disturbed Surface, < 5 cm Penetration, <= 7 cm Penetration - biology only

FIELD SAMPLING QA CHECKLIST

Station Location: B13-8333

Arrival Date/Time: 7/13/13 0730

Site Acceptable for Sampling: (Y) or N If No, reason: _____

Mark each box with Y, N, or NA

Field Procedures

1. Upon arriving at the sampling location, the following site observations are recorded:

| | |
|--|---|
| Is site accessible? | Y |
| Depth and benthic salinity recorded. Within limits? (>3m embayments; ≥25pt salinity) | Y |
| Vessel has been anchored (or tied off) | Y |
| Station DGPS coordinates (± 3 m) recorded | Y |
| Station occupation form completed | Y |

2. Sampling procedures:

| | |
|---|---|
| Field staff wearing fresh, powder free nitrile gloves | Y |
| Equipment washed/rinsed from previous station | Y |
| Vessel engine has been shut off for 5 minutes prior to sampling | Y |
| Sampling instrument washed with Alconox | Y |
| Sampling instrument given site water rinse prior to deployment | Y |
| Sample bottles correctly labeled (minimum: station id, date, agency, parameter) | Y |
| Sample bottles are lab certified, contaminant free | Y |
| Samples containers are the correct type in accordance with Table 5-2 in the Bight'13 QAM | Y |
| Sample condition meets acceptability criteria (e.g. no surface disturbance, leakage, canting, or washing) | Y |
| Sample penetration meets acceptability criteria (e.g. minimum 5cm for chem/tox; 7cm for infauna) | Y |
| Record grab disposition / characteristic information | F |
| Samples collected in the following order: infaunal, chemistry, toxicity | F |
| Chem/Tox samples collected from top 5cm, and 1cm from sides of grab | F |
| Sediment evenly distributed among containers | Y |
| Stainless steel scoop used to distribute sediment | F |
| Staff avoided contaminating samples at all times | F |
| COC seals have been placed over individual sample bottles | F |
| Site replicate (i.e., duplicate) collected (if applicable) | — |

FIELD SAMPLING QA CHECKLIST

3. Data Recording:

| | |
|---|---|
| Photo of sample grab(s) taken | Y |
| Samples properly logged on COC form | |
| Proper persons have signed the COC | |
| Field notes have been recorded for site before moving to the next | Y |

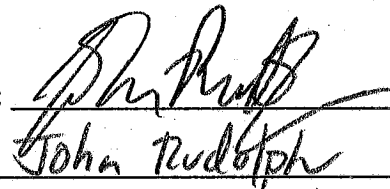
4. Sample Storage:

| | |
|---|---|
| Toxicity samples properly stored on wet ice | Y |
| Chemistry samples properly stored on dry ice | Y |
| Infaunal samples properly relaxed and preserved with formalin | Y |
| Cooler is taped shut for transport to lab | |
| Completed COC is included in plastic bag in cooler | |

5. PPE properly removed and disposed of upon station completion Y

Additional Notes:

Signature of QA/QC Personnel:



Date/Time:

7/13/13 0825

Print Name/Company:

John Rudolph

STATION OCCUPATION

BIGHT'13

Agency Code POLA/POLA

Weather

Clear
 Overcast
 Partly cloudy
 Drizzle

Rain
 Thunderstorm
 Fog

Sea State

Calm
 Choppy
 Rough

Salinity (ppt)

At estuary Sites only

Station ID D13-8333

Vessel Name Early Bird

Date 7/13/13

Arrival Time 0730
(hh:mm)

Abandoned site?
Y or N (if Y explain in comments)

Station Fail Code

Wind

Speed (kts) 1.7
 Direction (4) SE

Swell

Period (s) 0
 Height (ft) 0
 Direction (4) 0

Nav Type

DGPS
 GPS

Equipment Type

Van Veen
 Tandem Van Veen

Station Comments

GRAB EVENTS

Sample types (Chk all that apply)

| # | Time (hh:mm) | Latitude (DD°MM.mmmm) | Longitude (DD°MM.mmmm) | Depth (m) | Distance to target (m) | Grab Fail Code (6) | Penetration (cm) | Composition (1) | Odor (2) | Color (3) | Shell Hash (Y/N) | Infauna | Sed Chem | Grain Size | Sed Tox | Debris (Y/N) | Photos |
|----------------------|--------------|-----------------------|------------------------|-----------|------------------------|--------------------|------------------|-----------------|----------|-----------|------------------|---------|----------|------------|---------|--------------|-----------|
| | 0743 | 33.73110 | -118.19240 | 15.3 | 39 | None | 14 | Silty Sand | N | Gray | N | X | X | X | | N | 0906-0907 |
| Grab Event Comments: | | | | | | | | | | | | | | | | | |
| | 0758 | 33.73128 | -118.19239 | 15.4 | 37 | None | 11 | Silty Sand | N | Gray | N | | | | X | N | 0908-0909 |
| Grab Event Comments: | | | | | | | | | | | | | | | | | |
| Grab Event Comments: | | | | | | | | | | | | | | | | | |
| Grab Event Comments: | | | | | | | | | | | | | | | | | |
| Grab Event Comments: | | | | | | | | | | | | | | | | | |

1 Sediment Composition: Coarse sand, Fine sand, Silt/clay, Gravel, Cobble, Mixed
 2 Sediment Odor: None (N), Petroleum (P), Hydrogen sulfide (HS), Humic (HU), Other (O, describe in comments)
 3 Sediment Color: Brown, Gray, Black, Olive green, Red
 4 Directions: N, NE, E, SE, S, SW, W, NW, or XX for calm
 5 Station Fail codes: None, Temporary - sea conditions (comment req.), Temporary - atmosphere (comment req.), Temporary - mechanical (comment req.), Pre-abandoned (comment req.), Site On Land (comment req.), Vessel safety (comment req.), No Access Allowed (comment req.), Prolonged rough seas, Bottom salinity <25psu, Too Shallow (comment req.), Too many Event Failures (comment req.), Anthropogenic obstruction (comment req.), Natural hard bottom obstructions (comment req.), Not sampleable - other (comment req.)
 Grab Fail codes: None, Outside Radius Limit, Outside Target Depth, Premature closure, Flipped, Rocks/gravel, Dead shell, Live animal (comment req.), Debris (comment req.), Poor closure - other (comment req.), Heavily Canted, Large Humping, Washed, Disturbed Surface, < 5 cm Penetration, <= 7 cm Penetration - biology only

FIELD SAMPLING QA CHECKLIST

Station Location: B13-8347

Arrival Date/Time: 7/12/13 1700

Site Acceptable for Sampling: Y or N If No, reason: _____

Mark each box with Y, N, or NA

Field Procedures

1. Upon arriving at the sampling location, the following site observations are recorded:

| | |
|--|---|
| Is site accessible? | Y |
| Depth and benthic salinity recorded. Within limits? (>3m embayments; ≥25pt salinity) | Y |
| Vessel has been anchored (or tied off) | Y |
| Station DGPS coordinates (± 3 m) recorded | Y |
| Station occupation form completed | Y |

2. Sampling procedures:

| | |
|---|---|
| Field staff wearing fresh, powder free nitrile gloves | Y |
| Equipment washed/rinsed from previous station | Y |
| Vessel engine has been shut off for 5 minutes prior to sampling | Y |
| Sampling instrument washed with Alconox | Y |
| Sampling instrument given site water rinse prior to deployment | Y |
| Sample bottles correctly labeled (minimum: station id, date, agency, parameter) | Y |
| Sample bottles are lab certified, contaminant free | Y |
| Samples containers are the correct type in accordance with Table 5-2 in the Bight' 13 QAM | Y |
| Sample condition meets acceptability criteria (e.g. no surface disturbance, leakage, canting, or washing) | Y |
| Sample penetration meets acceptability criteria (e.g. minimum 5cm for chem/tox; 7cm for infauna) | Y |
| Record grab disposition / characteristic information | Y |
| Samples collected in the following order: infaunal, chemistry, toxicity | Y |
| Chem/Tox samples collected from top 5cm, and 1cm from sides of grab | Y |
| Sediment evenly distributed among containers | Y |
| Stainless steel scoop used to distribute sediment | Y |
| Staff avoided contaminating samples at all times | Y |
| COC seals have been placed over individual sample bottles | Y |
| Site replicate (i.e., duplicate) collected (if applicable) | — |

FIELD SAMPLING QA CHECKLIST

3. Data Recording:

| | |
|---|---|
| Photo of sample grab(s) taken | Y |
| Samples properly logged on COC form | |
| Proper persons have signed the COC | |
| Field notes have been recorded for site before moving to the next | Y |

4. Sample Storage:

| | |
|---|---|
| Toxicity samples properly stored on wet ice | Y |
| Chemistry samples properly stored on dry ice | Y |
| Infaunal samples properly relaxed and preserved with formalin | Y |
| Cooler is taped shut for transport to lab | |
| Completed COC is included in plastic bag in cooler | |

5. PPE properly removed and disposed of upon station completion Y

Additional Notes:

Signature of QA/QC Personnel:

Date/Time:

7/12/13 1746

Print Name/Company:

John Rudolph AMEC

STATION OCCUPATION

BIGHT'13

Agency Code POLA/POLS

Weather

Clear
 Overcast
 Partly cloudy
 Drizzle

Rain
 Thunderstorm
 Fog

Sea State

Calm
 Choppy
 Rough

Salinity (ppt)

At estuary Sites only

Station ID B13-8347

Date 7/12/13

Vessel Name Early Bird

Arrival Time 1700
 (hh:mm)

Abandoned site?

Y or N (If Y explain in comments)

Station Fail Code

Wind

Speed (kts) 8
 Direction (4) S

Swell

Period (s) 0
 Height (ft) 0
 Direction (4) 0

Nav Type

DGPS
 GPS

Station Comments

Equipment Type

Van Veen
 Tandem Van Veen

GRAB EVENTS

Sample types (Chk all that apply)

| # | Time (hh:mm) | Latitude (DD°MM.mmm) | Longitude (DD°MM.mmm) | Depth (m) | Distance to target (m) | Grab Fail Code (6) | Penetration (cm) | Composition (1) | Odor (2) | Color (3) | Shell Hash (Y/N) | Infauna | Sed Chem | Grain Size | Sed Tox | Debris (Y/N) | Photos |
|---|----------------------|----------------------|-----------------------|-----------|------------------------|--------------------|------------------|-----------------|----------|-----------|------------------|---------|----------|------------|---------|--------------|-----------|
| | 1708 | 33.73891 | -118.21039 | 26.7 | 36 | None | 16 | Silt | HU | Olive | N | X | X | X | | N | 0902-0903 |
| | Grab Event Comments: | | | | | | | | | | | | | | | | |
| | 1724 | 33.73888 | -118.21033 | 26.7 | 31 | None | 16 | Silt | HU | Olive | N | | | | X | N | 0904-0905 |
| | Grab Event Comments: | | | | | | | | | | | | | | | | |
| | Grab Event Comments: | | | | | | | | | | | | | | | | |
| | Grab Event Comments: | | | | | | | | | | | | | | | | |
| | Grab Event Comments: | | | | | | | | | | | | | | | | |

- Sediment Composition: Coarse sand, Fine sand, Silt/clay, Gravel, Cobble, Mixed
- Sediment Odor: None (N), Petroleum (P), Hydrogen sulfide (HS), Humic (HU), Other (O, describe in comments)
- Sediment Color: Brown, Gray, Black, Olive green, Red
- Directions: N, NE, E, SE, S, SW, W, NW, or XX for calm
- Station Fail codes: None, Temporary - sea conditions (comment req.), Temporary - atmosphere (comment req.), Temporary - mechanical (comment req.), Pre-abandoned (comment req.), Site On Land (comment req.), Vessel safety (comment req.), No Access Allowed (comment req.), Prolonged rough seas, Bottom salinity <25psu, Too Shallow (comment req.), Too many Event Failures (comment req.), Anthropogenic obstruction (comment req.), Natural hard bottom obstructions (comment req.), Not sampleable - other (comment req.)

Grab Fail codes: None, Outside Radius Limit, Outside Target Depth, Premature closure, Flipped, Rocks/gravel, Dead shell, Live animal (comment req.), Debris (comment req.), Poor closure - other (comment req.), Heavily Canted, Large Humping, Washed, Disturbed Surface, < 5 cm Penetration, <= 7 cm Penetration - biology only

FIELD SAMPLING QA CHECKLIST

Station Location: TMDL3-TB
TMDL6-CP

Arrival Date/Time: 7/12/13

Site Acceptable for Sampling: (Y) or N If No, reason: _____

Mark each box with Y, N, or NA

Field Procedures

1. Upon arriving at the sampling location, the following site observations are recorded:

| | |
|--|---|
| Is site accessible? | Y |
| Depth and benthic salinity recorded. Within limits? (>3m embayments; ≥25pt salinity) | Y |
| Vessel has been anchored (or tied off) | Y |
| Station DGPS coordinates (± 3 m) recorded | Y |
| Station occupation form completed | Y |

2. Sampling procedures:

| | |
|---|---|
| Field staff wearing fresh, powder free nitrile gloves | Y |
| Equipment washed/rinsed from previous station | Y |
| Vessel engine has been shut off for 5 minutes prior to sampling | Y |
| Sampling instrument washed with Alconox | Y |
| Sampling instrument given site water rinse prior to deployment | Y |
| Sample bottles correctly labeled (minimum: station id, date, agency, parameter) | Y |
| Sample bottles are lab certified, contaminant free | Y |
| Samples containers are the correct type in accordance with Table 5-2 in the Bight '13 QAM | Y |
| Sample condition meets acceptability criteria (e.g. no surface disturbance, leakage, canting, or washing) | Y |
| Sample penetration meets acceptability criteria (e.g. minimum 5cm for chem/tox; 7cm for infauna) | Y |
| Record grab disposition / characteristic information | Y |
| Samples collected in the following order: infaunal, chemistry, toxicity | Y |
| Chem/Tox samples collected from top 5cm, and 1cm from sides of grab | Y |
| Sediment evenly distributed among containers | Y |
| Stainless steel scoop used to distribute sediment | Y |
| Staff avoided contaminating samples at all times | Y |
| COC seals have been placed over individual sample bottles | Y |
| Site replicate (i.e., duplicate) collected (if applicable) | Y |

FIELD SAMPLING QA CHECKLIST

3. Data Recording:

| | |
|---|---|
| Photo of sample grab(s) taken | Y |
| Samples properly logged on COC form | |
| Proper persons have signed the COC | |
| Field notes have been recorded for site before moving to the next | Y |

4. Sample Storage:

| | |
|---|---|
| Toxicity samples properly stored on wet ice | Y |
| Chemistry samples properly stored on dry ice | Y |
| Infaunal samples properly relaxed and preserved with formalin | Y |
| Cooler is taped shut for transport to lab | |
| Completed COC is included in plastic bag in cooler | |

5. PPE properly removed and disposed of upon station completion Y

Additional Notes:

Signature of QA/QC Personnel:



Date/Time:

7/12/13 1620

Print Name/Company:

John Rudolph AMEC

STATION OCCUPATION

BIGHT'13

Agency Code POLA/POLD

Weather

Clear
 Overcast
 Partly cloudy
 Drizzle

Rain
 Thunderstorm
 Fog

Sea State

Calm
 Choppy
 Rough

Salinity (ppt)

At estuary Sites only

Station ID TMDL3-TD

TMDL6-CP

Date 7/12/13

Vessel Name Early Bird

Arrival Time 1529
 (hh:mm)

Abandoned site? Station Fail Code

Y or N (if Y explain in comments)

Wind

Speed (kts) 4.5
 Direction (4) 5

Swell

Period (s) 0
 Height (ft) 0
 Direction (4) 0

Nav Type

DGPS
 GPS

Station Comments

Duplicate Collected for Chem TMDL6-CP

Equipment Type

Van Veen
 Tandem Van Veen

GRAB EVENTS

Sample types (Chk all that apply)

| # | Time (hh:mm) | Latitude (DD°MM.mmm) | Longitude (DD°MM.mmm) | Depth (m) | Distance to target (m) | Grab Fail Code (6) | Penetration (cm) | Composition (1) | Odor (2) | Color (3) | Shell Hash (Y/N) | Infauna | Sed Chem | Grain Size | Sed Tox | Debris (Y/N) | Photos |
|---|---|----------------------|-----------------------|-----------|------------------------|--------------------|------------------|-----------------|----------|-----------|------------------|---------|----------|------------|---------|--------------|-----------|
| | 1533 | 33.46.1582 | -118.13.5027 | 20.2 | 0 | None | 14 | Silty Sand | N | Grey | N | X | | | | N | 0895-0896 |
| | Grab Event Comments: <u>Benthics Only</u> | | | | | | | | | | | | | | | | |
| | 1541 | 33.46.183 | -118.13.5017 | 19.9 | 2 | None | 14 | Sandy Clay | N | Gray | N | | X | X | | N | 0897-0898 |
| | Grab Event Comments: <u>Chem Only</u> | | | | | | | | | | | | | | | | |
| | 1555 | 33.46.1573 | -118.13.5100 | 20.1 | 2 | None | 13 | Sandy Clay | N | Gray | N | | | | X | N | 0899-0900 |
| | Grab Event Comments: <u>Tox Only</u> | | | | | | | | | | | | | | | | |
| | Grab Event Comments: | | | | | | | | | | | | | | | | |
| | Grab Event Comments: | | | | | | | | | | | | | | | | |
| | Grab Event Comments: | | | | | | | | | | | | | | | | |

- Sediment Composition: Coarse sand, Fine sand, Silt/clay, Gravel, Cobble, Mixed
 - Sediment Odor: None (N), Petroleum (P), Hydrogen sulfide (HS), Humic (HU), Other (O, describe in comments)
 - Sediment Color: Brown, Gray, Black, Olive green, Red
 - Directions: N, NE, E, SE, S, SW, W, NW, or XX for calm
 - Station Fail codes: None, Temporary - sea conditions (comment req.), Temporary - atmosphere (comment req.), Temporary - mechanical (comment req.), Pre-abandoned (comment req.), Site On Land (comment req.), Vessel safety (comment req.), No Access Allowed (comment req.), Prolonged rough seas, Bottom salinity <25psu, Too Shallow (comment req.), Too many Event Failures (comment req.), Anthropogenic obstruction (comment req.), Natural hard bottom obstructions (comment req.), Not sampleable - other (comment req.)
- Grab Fail codes: None, Outside Radius Limit, Outside Target Depth, Premature closure, Flipped, Rocks/gravel, Dead shell, Live animal (comment req.), Debris (comment req.), Poor closure - other (comment req.), Heavily Canted, Large Humping, Washed, Disturbed Surface, < 5 cm Penetration, <= 7 cm Penetration - biology only

FIELD SAMPLING QA CHECKLIST

Station Location: B13-8401

Arrival Date/Time: 7/12/13

Site Acceptable for Sampling: (Y) or N If No, reason: _____

Mark each box with Y, N, or NA

Field Procedures

1. Upon arriving at the sampling location, the following site observations are recorded:

| | |
|--|---|
| Is site accessible? | Y |
| Depth and benthic salinity recorded. Within limits? (>3m embayments; ≥25pt salinity) | Y |
| Vessel has been anchored (or tied off) | Y |
| Station DGPS coordinates (± 3 m) recorded | Y |
| Station occupation form completed | Y |

2. Sampling procedures:

| | |
|---|---|
| Field staff wearing fresh, powder free nitrile gloves | Y |
| Equipment washed/rinsed from previous station | Y |
| Vessel engine has been shut off for 5 minutes prior to sampling | Y |
| Sampling instrument washed with Alconox | Y |
| Sampling instrument given site water rinse prior to deployment | Y |
| Sample bottles correctly labeled (minimum: station id, date, agency, parameter) | Y |
| Sample bottles are lab certified, contaminant free | Y |
| Samples containers are the correct type in accordance with Table 5-2 in the Bight'13 QAM | Y |
| Sample condition meets acceptability criteria (e.g. no surface disturbance, leakage, canting, or washing) | Y |
| Sample penetration meets acceptability criteria (e.g. minimum 5cm for chem/tox; 7cm for infauna) | Y |
| Record grab disposition / characteristic information | Y |
| Samples collected in the following order: infaunal, chemistry, toxicity | Y |
| Chem/Tox samples collected from top 5cm, and 1cm from sides of grab | Y |
| Sediment evenly distributed among containers | Y |
| Stainless steel scoop used to distribute sediment | Y |
| Staff avoided contaminating samples at all times | Y |
| COC seals have been placed over individual sample bottles | Y |
| Site replicate (i.e., duplicate) collected (if applicable) | — |

FIELD SAMPLING QA CHECKLIST

3. Data Recording:

| | |
|---|---|
| Photo of sample grab(s) taken | Y |
| Samples properly logged on COC form | |
| Proper persons have signed the COC | |
| Field notes have been recorded for site before moving to the next | Y |

4. Sample Storage:

| | |
|---|---|
| Toxicity samples properly stored on wet ice | Y |
| Chemistry samples properly stored on dry ice | Y |
| Infaunal samples properly relaxed and preserved with formalin | Y |
| Cooler is taped shut for transport to lab | |
| Completed COC is included in plastic bag in cooler | |

5. PPE properly removed and disposed of upon station completion Y

Additional Notes:

Signature of QA/QC Personnel: 

Date/Time: 7/12/13 1518

Print Name/Company: John Rudolph AMEC

STATION OCCUPATION

BIGHT'13

Agency Code POLA/POLB

Weather

Clear

Rain

Sea State

Calm

Salinity (ppt)

Station ID BJ-8401

Vessel Name Early Bird

Overcast

Thunderstorm

Choppy

At estuary Sites only

Date 7/12/13

Arrival Time 1435
(hh:mm)

Partly cloudy

Fog

Rough

Abandoned site?

Station Fail Code

Y or N (if Y explain in comments)

Wind

Speed (kts) 4.1

Direction (4) SE

Swell

Period (s) 0

Height (ft) 0

Direction (4) 0

Nav Type

DGPS

GPS

Station Comments

Equipment Type

Van Veen

Tandem Van Veen

GRAB EVENTS

Sample types (Chk all that apply)

| # | Time (hh:mm) | Latitude (DD°MM.mmm) | Longitude (DD°MM.mmm) | Depth (m) | Distance to target (m) | Grab Fail Code (6) | Penetration (cm) | Composition (1) | Odor (2) | Color (3) | Shell Hash (Y/N) | Infauna | Sed Chem | Grain Size | Sed Tox | Debris (Y/N) | Photos |
|----------------------|--------------|----------------------|-----------------------|-----------|------------------------|--------------------|------------------|-----------------|----------|-----------|------------------|---------|----------|------------|---------|--------------|-----------|
| | 1442 | 33.77158 | -118.21180 | 13.9 | 0 | None | 16 | Silt | N | Olive | N | X | X | X | | N | 0890-0892 |
| Grab Event Comments: | | | | | | | | | | | | | | | | | |
| | 1458 | 33.77163 | -118.21180 | 13.9 | 0 | None | 16 | Silt | N | Olive | N | | | | X | Y | 0893-0894 |
| Grab Event Comments: | | | | | | | | | | | | | | | | | |
| Grab Event Comments: | | | | | | | | | | | | | | | | | |
| Grab Event Comments: | | | | | | | | | | | | | | | | | |
| Grab Event Comments: | | | | | | | | | | | | | | | | | |

- Sediment Composition: Coarse sand, Fine sand, Silt/clay, Gravel, Cobble, Mixed
 - Sediment Odor: None (N), Petroleum (P), Hydrogen sulfide (HS), Humic (HU), Other (O, describe in comments)
 - Sediment Color: Brown, Gray, Black, Olive green, Red
 - Directions: N, NE, E, SE, S, SW, W, NW, or XX for calm
 - Station Fail codes: None, Temporary - sea conditions (comment req.), Temporary - atmosphere (comment req.), Temporary - mechanical (comment req.), Pre-abandoned (comment req.), Site On Land (comment req.), Vessel safety (comment req.), No Access Allowed (comment req.), Prolonged rough seas, Bottom salinity <25psu, Too Shallow (comment req.), Too many Event Failures (comment req.), Anthropogenic obstruction (comment req.), Natural hard bottom obstructions (comment req.), Not sampleable - other (comment req.)
- Grab Fail codes: None, Outside Radius Limit, Outside Target Depth, Premature closure, Flipped, Rocks/gravel, Dead shell, Live animal (comment req.), Debris (comment req.), Poor closure - other (comment req.), Heavily Canted, Large Humping, Washed, Disturbed Surface, < 5 cm Penetration, <= 7 cm Penetration - biology only

FIELD SAMPLING QA CHECKLIST

Station Location: B13-8399

Arrival Date/Time: 7/12/13 1350

Site Acceptable for Sampling: (Y) or N If No, reason: _____

Mark each box with Y, N, or NA

Field Procedures

1. Upon arriving at the sampling location, the following site observations are recorded:

| | |
|--|---|
| Is site accessible? | Y |
| Depth and benthic salinity recorded. Within limits? (>3m embayments; ≥25pt salinity) | Y |
| Vessel has been anchored (or tied off) | Y |
| Station DGPS coordinates (± 3 m) recorded | Y |
| Station occupation form completed | Y |

2. Sampling procedures:

| | |
|---|---|
| Field staff wearing fresh, powder free nitrile gloves | Y |
| Equipment washed/rinsed from previous station | Y |
| Vessel engine has been shut off for 5 minutes prior to sampling | Y |
| Sampling instrument washed with Alconox | Y |
| Sampling instrument given site water rinse prior to deployment | Y |
| Sample bottles correctly labeled (minimum: station id, date, agency, parameter) | Y |
| Sample bottles are lab certified, contaminant free | Y |
| Samples containers are the correct type in accordance with Table 5-2 in the Bight' 13 QAM | Y |
| Sample condition meets acceptability criteria (e.g. no surface disturbance, leakage, canting, or washing) | Y |
| Sample penetration meets acceptability criteria (e.g. minimum 5cm for chem/tox; 7cm for infauna) | Y |
| Record grab disposition / characteristic information | Y |
| Samples collected in the following order: infaunal, chemistry, toxicity | Y |
| Chem/Tox samples collected from top 5cm, and 1cm from sides of grab | Y |
| Sediment evenly distributed among containers | Y |
| Stainless steel scoop used to distribute sediment | Y |
| Staff avoided contaminating samples at all times | Y |
| COC seals have been placed over individual sample bottles | Y |
| Site replicate (i.e., duplicate) collected (if applicable) | — |

FIELD SAMPLING QA CHECKLIST

3. Data Recording:

| | |
|---|---|
| Photo of sample grab(s) taken | Y |
| Samples properly logged on COC form | |
| Proper persons have signed the COC | |
| Field notes have been recorded for site before moving to the next | Y |

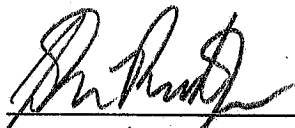
4. Sample Storage:

| | |
|---|---|
| Toxicity samples properly stored on wet ice | Y |
| Chemistry samples properly stored on dry ice | Y |
| Infaunal samples properly relaxed and preserved with formalin | Y |
| Cooler is taped shut for transport to lab | |
| Completed COC is included in plastic bag in cooler | |

5. PPE properly removed and disposed of upon station completion Y

Additional Notes:

Signature of QA/QC Personnel:



Date/Time:

7/12/13 1424

Print Name/Company:

John Rudolph AMEC

STATION OCCUPATION

BIGHT'13

Agency Code POA/POB

Weather

Clear
 Overcast
 Partly cloudy
 Drizzle

Rain
 Thunderstorm
 Fog

Sea State

Calm
 Choppy
 Rough

Salinity (ppt)

At estuary Sites only

Station ID B13-8399

Date 7/12/13

Vessel Name Early Bird

Arrival Time 1350
 (hh:mm)

Abandoned site?
 Y or N (If Y explain in comments)

Station Fail Code

Wind

Speed (kts) 4.4
 Direction (4) SE

Swell

Period (s) 0
 Height (ft) 0
 Direction (4) 0

Nav Type

DGPS
 GPS

Station Comments

Equipment Type

Van Veen
 Tandem Van Veen

GRAB EVENTS

Sample types (Chk all that apply)

| # | Time (hh:mm) | Latitude (DD°MM.mmmm) | Longitude (DD°MM.mmmm) | Depth (m) | Distance to target (m) | Grab Fail Code (6) | Penetration (cm) | Composition (1) | Odor (2) | Color (3) | Shell Hash (Y/N) | Infauna | Sed Chem | Grain Size | Sed Tox | Debris (Y/N) | Photos | |
|----------------------|--------------|-----------------------|------------------------|-------------|------------------------|--------------------|------------------|-------------------|----------|--------------|------------------|----------|----------|------------|---------|--------------|------------------|------------------|
| | <u>1355</u> | <u>33.76871</u> | <u>-118.22204</u> | <u>18.8</u> | <u>23</u> | <u>None</u> | <u>15</u> | <u>Sandy Silt</u> | <u>N</u> | <u>Olive</u> | <u>N</u> | <u>X</u> | <u>X</u> | <u>X</u> | | <u>N</u> | <u>0886-0887</u> | |
| Grab Event Comments: | | | | | | | | | | | | | | | | | | |
| | <u>1407</u> | <u>33.76865</u> | <u>-118.22205</u> | <u>18.8</u> | <u>17</u> | <u>None</u> | <u>16</u> | <u>Sandy Silt</u> | <u>N</u> | <u>Olive</u> | <u>N</u> | | | | | <u>X</u> | <u>Y</u> | <u>0888-0889</u> |
| Grab Event Comments: | | | | | | | | | | | | | | | | | | |
| Grab Event Comments: | | | | | | | | | | | | | | | | | | |
| Grab Event Comments: | | | | | | | | | | | | | | | | | | |
| Grab Event Comments: | | | | | | | | | | | | | | | | | | |

- 1 Sediment Composition: Coarse sand, Fine sand, Silt/clay, Gravel, Cobble, Mixed
 - 2 Sediment Odor: None (N), Petroleum (P), Hydrogen sulfide (HS), Humic (HU), Other (O, describe in comments)
 - 3 Sediment Color: Brown, Gray, Black, Olive green, Red
 - 4 Directions: N, NE, E, SE, S, SW, W, NW, or XX for calm
 - 5 Station Fail codes: None, Temporary - sea conditions (comment req.), Temporary - atmosphere (comment req.), Temporary - mechanical (comment req.), Pre-abandoned (comment req.), Site On Land (comment req.), Vessel safety (comment req.), No Access Allowed (comment req.), Prolonged rough seas, Bottom salinity <25psu, Too Shallow (comment req.), Too many Event Failures (comment req.), Anthropogenic obstruction (comment req.), Natural hard bottom obstructions (comment req.), Not sampleable - other (comment req.)
- Grab Fail codes: None, Outside Radius Limit, Outside Target Depth, Premature closure, Flipped, Rocks/gravel, Dead shell, Live animal (comment req.), Debris (comment req.), Poor closure - other (comment req.), Heavily Canted, Large Humping, Washed, Disturbed Surface, < 5 cm Penetration, <= 7 cm Penetration - biology only

FIELD SAMPLING QA CHECKLIST

Station Location: TMDL4-CS

Arrival Date/Time: 7/12/13 1218

Site Acceptable for Sampling: (Y) or N If No, reason: _____

Mark each box with Y, N, or NA

Field Procedures

1. Upon arriving at the sampling location, the following site observations are recorded:

| | |
|--|---|
| Is site accessible? | Y |
| Depth and benthic salinity recorded. Within limits? (>3m embayments; ≥25pt salinity) | Y |
| Vessel has been anchored (or tied off) | Y |
| Station DGPS coordinates (± 3 m) recorded | Y |
| Station occupation form completed | Y |

2. Sampling procedures:

| | |
|---|---|
| Field staff wearing fresh, powder free nitrile gloves | Y |
| Equipment washed/rinsed from previous station | Y |
| Vessel engine has been shut off for 5 minutes prior to sampling | Y |
| Sampling instrument washed with Alconox | Y |
| Sampling instrument given site water rinse prior to deployment | Y |
| Sample bottles correctly labeled (minimum: station id, date, agency, parameter) | Y |
| Sample bottles are lab certified, contaminant free | Y |
| Samples containers are the correct type in accordance with Table 5-2 in the Bight' 13 QAM | Y |
| Sample condition meets acceptability criteria (e.g. no surface disturbance, leakage, canting, or washing) | Y |
| Sample penetration meets acceptability criteria (e.g. minimum 5cm for chem/tox; 7cm for infauna) | Y |
| Record grab disposition / characteristic information | Y |
| Samples collected in the following order: infaunal, chemistry, toxicity | Y |
| Chem/Tox samples collected from top 5cm, and 1cm from sides of grab | Y |
| Sediment evenly distributed among containers | Y |
| Stainless steel scoop used to distribute sediment | Y |
| Staff avoided contaminating samples at all times | Y |
| COC seals have been placed over individual sample bottles | Y |
| Site replicate (i.e., duplicate) collected (if applicable) | — |

FIELD SAMPLING QA CHECKLIST

3. Data Recording:


| | |
|---|---|
| Photo of sample grab(s) taken | Y |
| Samples properly logged on COC form | |
| Proper persons have signed the COC | |
| Field notes have been recorded for site before moving to the next | Y |

4. Sample Storage:

| | |
|---|---|
| Toxicity samples properly stored on wet ice | Y |
| Chemistry samples properly stored on dry ice | Y |
| Infaunal samples properly relaxed and preserved with formalin | Y |
| Cooler is taped shut for transport to lab | |
| Completed COC is included in plastic bag in cooler | |

5. PPE properly removed and disposed of upon station completion _____

Additional Notes:

Signature of QA/QC Personnel:  Date/Time: 7/12/13 1258
Print Name/Company: John Rudolph AMEC

STATION OCCUPATION

BIGHT'13

Agency Code POLA/POLB

Weather
 Clear
 Overcast
 Partly cloudy
 Drizzle

Rain
 Thunderstorm
 Fog

Sea State
 Calm
 Choppy
 Rough

Salinity (ppt)

 At estuary Sites only

Station ID TMDL4-CS

Vessel Name Early Bird

Date 7/12/13

Arrival Time 1218
 (hh:mm)

Abandoned site?
 Y or N (if Y explain in comments)
 Station Fail Code

Wind
 Speed (kts) 4.0
 Direction (4) SE

Swell
 Period (s) 0
 Height (ft) 0
 Direction (4) 0

Nav Type
 DGPS
 GPS

Station Comments
pyrethroids collected

Equipment Type
 Van Veen
 Tandem Van Veen

GRAB EVENTS

Sample types (Chk all that apply)

| # | Time (hh:mm) | Latitude (DD°MM.mmm) | Longitude (DD°MM.mmm) | Depth (m) | Distance to target (m) | Grab Fail Code (6) | Penetration (cm) | Composition (1) | Odor (2) | Color (3) | Shell Hash (Y/N) | Infauna | Sed Chem | Grain Size | Sed Tox | Debris (Y/N) | Photos | |
|----------------------|--------------|----------------------|-----------------------|------------|------------------------|--------------------|------------------|-----------------|-----------|------------|------------------|----------|----------|------------|---------|--------------|------------------|------------------|
| | <u>1220</u> | <u>33.46.5106</u> | <u>-118.14.7109</u> | <u>7.7</u> | <u>0</u> | <u>None</u> | <u>16</u> | <u>Silt</u> | <u>HS</u> | <u>Blk</u> | <u>N</u> | <u>X</u> | <u>X</u> | <u>X</u> | | <u>Y</u> | <u>0880-0883</u> | |
| Grab Event Comments: | | | | | | | | | | | | | | | | | | |
| | <u>1235</u> | <u>33.46.5101</u> | <u>-118.14.7124</u> | <u>7.9</u> | <u>2</u> | <u>None</u> | <u>16</u> | <u>Silt</u> | <u>HS</u> | <u>Blk</u> | <u>N</u> | | | | | <u>X</u> | <u>Y</u> | <u>0884-0885</u> |
| Grab Event Comments: | | | | | | | | | | | | | | | | | | |
| Grab Event Comments: | | | | | | | | | | | | | | | | | | |
| Grab Event Comments: | | | | | | | | | | | | | | | | | | |
| Grab Event Comments: | | | | | | | | | | | | | | | | | | |

1 Sediment Composition: Coarse sand, Fine sand, Silt/clay, Gravel, Cobble, Mixed
 2 Sediment Odor: None (N), Petroleum (P), Hydrogen sulfide (HS), Humic (HU), Other (O, describe in comments)
 3 Sediment Color: Brown, Gray, Black, Olive green, Red
 4 Directions: N, NE, E, SE, S, SW, W, NW, or XX for calm
 5 Station Fail codes: None, Temporary - sea conditions (comment req.), Temporary - atmosphere (comment req.), Temporary - mechanical (comment req.), Pre-abandoned (comment req.), Site On Land (comment req.), Vessel safety (comment req.), No Access Allowed (comment req.), Prolonged rough seas, Bottom salinity <25psu, Too Shallow (comment req.), Too many Event Failures (comment req.), Anthropogenic obstruction (comment req.), Natural hard bottom obstructions (comment req.), Not sampleable - other (comment req.)
 Grab Fail codes: None, Outside Radius Limit, Outside Target Depth, Premature closure, Flipped, Rocks/gravel, Dead shell, Live animal (comment req.), Debris (comment req.), Poor closure - other (comment req.), Heavily Canted, Large Humping, Washed, Disturbed Surface, < 5 cm Penetration, <= 7 cm Penetration - biology only

FIELD SAMPLING QA CHECKLIST

Station Location: B13-8397

Arrival Date/Time: 7/12/13

Site Acceptable for Sampling: Y or N If No, reason: _____

Mark each box with Y, N, or NA

Field Procedures

1. Upon arriving at the sampling location, the following site observations are recorded:

| | |
|--|---|
| Is site accessible? | Y |
| Depth and benthic salinity recorded. Within limits? (>3m embayments; ≥25pt salinity) | Y |
| Vessel has been anchored (or tied off) | Y |
| Station DGPS coordinates (± 3 m) recorded | Y |
| Station occupation form completed | Y |

2. Sampling procedures:

| | |
|---|---|
| Field staff wearing fresh, powder free nitrile gloves | Y |
| Equipment washed/rinsed from previous station | Y |
| Vessel engine has been shut off for 5 minutes prior to sampling | Y |
| Sampling instrument washed with Alconox | Y |
| Sampling instrument given site water rinse prior to deployment | Y |
| Sample bottles correctly labeled (minimum: station id, date, agency, parameter) | Y |
| Sample bottles are lab certified, contaminant free | Y |
| Samples containers are the correct type in accordance with Table 5-2 in the Bight' 13 QAM | Y |
| Sample condition meets acceptability criteria (e.g. no surface disturbance, leakage, canting, or washing) | Y |
| Sample penetration meets acceptability criteria (e.g. minimum 5cm for chem/tox; 7cm for infauna) | Y |
| Record grab disposition / characteristic information | Y |
| Samples collected in the following order: infaunal, chemistry, toxicity | Y |
| Chem/Tox samples collected from top 5cm, and 1cm from sides of grab | Y |
| Sediment evenly distributed among containers | Y |
| Stainless steel scoop used to distribute sediment | Y |
| Staff avoided contaminating samples at all times | Y |
| COC seals have been placed over individual sample bottles | Y |
| Site replicate (i.e., duplicate) collected (if applicable) | Y |

FIELD SAMPLING QA CHECKLIST

3. Data Recording:


| | |
|---|---|
| Photo of sample grab(s) taken | Y |
| Samples properly logged on COC form | |
| Proper persons have signed the COC | |
| Field notes have been recorded for site before moving to the next | Y |

4. Sample Storage:

| | |
|---|---|
| Toxicity samples properly stored on wet ice | Y |
| Chemistry samples properly stored on dry ice | Y |
| Infaunal samples properly relaxed and preserved with formalin | Y |
| Cooler is taped shut for transport to lab | |
| Completed COC is included in plastic bag in cooler | |

5. PPE properly removed and disposed of upon station completion _____

Additional Notes:

Signature of QA/QC Personnel:  Date/Time: 7/12/13 1154
Print Name/Company: John Rudolph AMEC

STATION OCCUPATION

BIGHT'13

Agency Code POLA/POLA II

Weather

Clear
 Overcast
 Partly cloudy
 Drizzle

Rain
 Thunderstorm
 Fog

Sea State

Calm
 Choppy
 Rough

Salinity (ppt)

At estuary Sites only

Station ID DB-8397

Date 7/12/13

Arrival Time 1115
 (hh:mm)

Abandoned site? Station Fail Code
 Y or N (If Y explain in comments)

Wind

Speed (kts) 4
 Direction (4) SE

Swell

Period (s) 0
 Height (ft) 0
 Direction (4) 0

Nav Type

DGPS
 GPS

Station Comments

0 = Slight, very faint HS

Equipment Type

Van Veen
 Tandem Van Veen

GRAB EVENTS

Sample types (Chk all that apply)

| # | Time (hh:mm) | Latitude (DD°MM.mmm) | Longitude (DD°MM.mmm) | Depth (m) | Distance to target (m) | Grab Fail Code (6) | Penetration (cm) | Composition (1) | Odor (2) | Color (3) | Shell Hash (Y/N) | Infauna | Sed Chem | Grain Size | Sed Tox | Debris (Y/N) | Photos |
|---|----------------------|----------------------|-----------------------|-----------|------------------------|--------------------|------------------|-----------------|----------|-----------|------------------|---------|----------|------------|---------|--------------|-----------|
| | 1120 | 33.76700 | -118.24938 | 4.2 | 42 | None | 16 | Silt | 0 | Olive | N | X | X | X | | Y | 0875-6876 |
| | Grab Event Comments: | | | | | | | | | | | | | | | | |
| | 1136 | 33.76696 | -118.24929 | 4.5 | 32 | None | 16 | Silt | N | Olive | N | | | | X | Y | 0877-0879 |
| | Grab Event Comments: | | | | | | | | | | | | | | | | |
| | Grab Event Comments: | | | | | | | | | | | | | | | | |
| | Grab Event Comments: | | | | | | | | | | | | | | | | |
| | Grab Event Comments: | | | | | | | | | | | | | | | | |

- Sediment Composition: Coarse sand, Fine sand, Silt/clay, Gravel, Cobble, Mixed
 - Sediment Odor: None (N), Petroleum (P), Hydrogen sulfide (HS), Humic (HU), Other (O, describe in comments)
 - Sediment Color: Brown, Gray, Black, Olive green, Red
 - Directions: N, NE, E, SE, S, SW, W, NW, or XX for calm
 - Station Fail codes: None, Temporary - sea conditions (comment req.), Temporary - atmosphere (comment req.), Temporary - mechanical (comment req.), Pre-abandoned (comment req.), Site On Land (comment req.), Vessel safety (comment req.), No Access Allowed (comment req.), Prolonged rough seas, Bottom salinity <25psu, Too Shallow (comment req.), Too many Event Failures (comment req.), Anthropogenic obstruction (comment req.), Natural hard bottom obstructions (comment req.), Not sampleable - other (comment req.)
- Grab Fail codes: None, Outside Radius Limit, Outside Target Depth, Premature closure, Flipped, Rocks/gravel, Dead shell, Live animal (comment req.), Debris (comment req.), Poor closure - other (comment req.), Heavily Canted, Large Humping, Washed, Disturbed Surface, < 5 cm Penetration, <= 7 cm Penetration - biology only

FIELD SAMPLING QA CHECKLIST

Station Location: B13-8396

Arrival Date/Time: 7/12/13 0955

Site Acceptable for Sampling: Y or N If No, reason: _____

Mark each box with Y, N, or NA

Field Procedures

1. Upon arriving at the sampling location, the following site observations are recorded:

| | |
|--|---|
| Is site accessible? | Y |
| Depth and benthic salinity recorded. Within limits? (>3m embayments; ≥25pt salinity) | Y |
| Vessel has been anchored (or tied off) | Y |
| Station DGPS coordinates (± 3 m) recorded | Y |
| Station occupation form completed | Y |

2. Sampling procedures:

| | |
|---|---|
| Field staff wearing fresh, powder free nitrile gloves | Y |
| Equipment washed/rinsed from previous station | Y |
| Vessel engine has been shut off for 5 minutes prior to sampling | Y |
| Sampling instrument washed with Alconox | Y |
| Sampling instrument given site water rinse prior to deployment | Y |
| Sample bottles correctly labeled (minimum: station id, date, agency, parameter) | Y |
| Sample bottles are lab certified, contaminant free | Y |
| Samples containers are the correct type in accordance with Table 5-2 in the Bight'13 QAM | Y |
| Sample condition meets acceptability criteria (e.g. no surface disturbance, leakage, canting, or washing) | Y |
| Sample penetration meets acceptability criteria (e.g. minimum 5cm for chem/tox; 7cm for infauna) | Y |
| Record grab disposition / characteristic information | Y |
| Samples collected in the following order: infaunal, chemistry, toxicity | Y |
| Chem/Tox samples collected from top 5cm, and 1cm from sides of grab | Y |
| Sediment evenly distributed among containers | Y |
| Stainless steel scoop used to distribute sediment | Y |
| Staff avoided contaminating samples at all times | Y |
| COC seals have been placed over individual sample bottles | Y |
| Site replicate (i.e., duplicate) collected (if applicable) | — |

FIELD SAMPLING QA CHECKLIST

3. Data Recording:

| | |
|---|---|
| Photo of sample grab(s) taken | Y |
| Samples properly logged on COC form | |
| Proper persons have signed the COC | |
| Field notes have been recorded for site before moving to the next | Y |

4. Sample Storage:

| | |
|---|---|
| Toxicity samples properly stored on wet ice | Y |
| Chemistry samples properly stored on dry ice | Y |
| Infaunal samples properly relaxed and preserved with formalin | Y |
| Cooler is taped shut for transport to lab | |
| Completed COC is included in plastic bag in cooler | |

5. PPE properly removed and disposed of upon station completion Y

Additional Notes:

Signature of QA/QC Personnel:



Date/Time:

7/12/13 1040

Print Name/Company:

John Rudolph AMEC

STATION OCCUPATION

BIGHT'13

Agency Code POLA/POLJ

Weather

Clear
 Overcast
 Partly cloudy
 Drizzle

Rain
 Thunderstorm
 Fog

Sea State

Calm
 Choppy
 Rough

Salinity (ppt)

At estuary Sites only

Station ID B13-8396

Vessel Name Early Bird

Date 7/12/13

Arrival Time 0955
(hh:mm)

Abandoned site? Station Fail Code

Y or N (If Y explain in comments)

Wind

Speed (kts) 3.8
 Direction (4) SE

Swell

Period (s) 0
 Height (ft) 0
 Direction (4) 0

Nav Type

DGPS
 GPS

Station Comments

Equipment Type

Van Veen
 Tandem Van Veen

GRAB EVENTS

Sample types (Chk all that apply)

| # | Time (hh:mm) | Latitude (DD°MM.mmmmm) | Longitude (DD°MM.mmmmm) | Depth (m) | Distance to target (m) | Grab Fail Code (6) | Penetration (cm) | Composition (1) | Odor (2) | Color (3) | Shell Hash (Y/N) | Infauna | Sed Chem | Grain Size | Sed Tox | Debris (Y/N) | Photos |
|---|----------------------|------------------------|-------------------------|-----------|------------------------|--------------------|------------------|-----------------|----------|-----------|------------------|---------|----------|------------|---------|--------------|-----------|
| | 0958 | 33.76620 | -118.27747 | 14.8 | 43 | None | 16 | Sandy Silt | N | Olive | N | X | X | X | | N | 0871-0872 |
| | Grab Event Comments: | | | | | | | | | | | | | | | | |
| | 1010 | 33.76619 | -118.27739 | 14.7 | 36 | None | 16 | Sandy Silt | N | Olive | N | | | | X | N | 0873-0874 |
| | Grab Event Comments: | | | | | | | | | | | | | | | | |
| | Grab Event Comments: | | | | | | | | | | | | | | | | |
| | Grab Event Comments: | | | | | | | | | | | | | | | | |
| | Grab Event Comments: | | | | | | | | | | | | | | | | |

- Sediment Composition: Coarse sand, Fine sand, Silt/clay, Gravel, Cobble, Mixed
- Sediment Odor: None (N), Petroleum (P), Hydrogen sulfide (HS), Humic (HU), Other (O, describe in comments)
- Sediment Color: Brown, Gray, Black, Olive green, Red
- Directions: N, NE, E, SE, S, SW, W, NW, or XX for calm
- Station Fail codes: None, Temporary - sea conditions (comment req.), Temporary - atmosphere (comment req.), Temporary - mechanical (comment req.), Pre-abandoned (comment req.), Site On Land (comment req.), Vessel safety (comment req.), No Access Allowed (comment req.), Prolonged rough seas, Bottom salinity <25psu, Too Shallow (comment req.), Too many Event Failures (comment req.), Anthropogenic obstruction (comment req.), Natural hard bottom obstructions (comment req.), Not sampleable - other (comment req.)

Grab Fail codes: None, Outside Radius Limit, Outside Target Depth, Premature closure, Flipped, Rocks/gravel, Dead shell, Live animal (comment req.), Debris (comment req.), Poor closure - other (comment req.), Heavily Canted, Large Humping, Washed, Disturbed Surface, < 5 cm Penetration, <= 7 cm Penetration - biology only

FIELD SAMPLING QA CHECKLIST

Station Location: B13-8384

Arrival Date/Time: 7/12/13 0905

Site Acceptable for Sampling: Y or N If No, reason: _____

Mark each box with Y, N, or NA

Field Procedures

1. Upon arriving at the sampling location, the following site observations are recorded:

| | |
|--|---|
| Is site accessible? | Y |
| Depth and benthic salinity recorded. Within limits? (>3m embayments; ≥25pt salinity) | Y |
| Vessel has been anchored (or tied off) | Y |
| Station DGPS coordinates (± 3 m) recorded | Y |
| Station occupation form completed | Y |

2. Sampling procedures:

| | |
|---|---|
| Field staff wearing fresh, powder free nitrile gloves | Y |
| Equipment washed/rinsed from previous station | Y |
| Vessel engine has been shut off for 5 minutes prior to sampling | Y |
| Sampling instrument washed with Alconox | Y |
| Sampling instrument given site water rinse prior to deployment | Y |
| Sample bottles correctly labeled (minimum: station id, date, agency, parameter) | Y |
| Sample bottles are lab certified, contaminant free | Y |
| Samples containers are the correct type in accordance with Table 5-2 in the Bight '13 QAM | Y |
| Sample condition meets acceptability criteria (e.g. no surface disturbance, leakage, canting, or washing) | Y |
| Sample penetration meets acceptability criteria (e.g. minimum 5cm for chem/tox; 7cm for infauna) | Y |
| Record grab disposition / characteristic information | Y |
| Samples collected in the following order: infaunal, chemistry, toxicity | Y |
| Chem/Tox samples collected from top 5cm, and 1cm from sides of grab | Y |
| Sediment evenly distributed among containers | Y |
| Stainless steel scoop used to distribute sediment | Y |
| Staff avoided contaminating samples at all times | Y |
| COC seals have been placed over individual sample bottles | Y |
| Site replicate (i.e., duplicate) collected (if applicable) | — |

FIELD SAMPLING QA CHECKLIST

3. Data Recording:

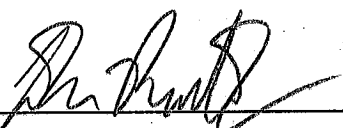
| | |
|---|---|
| Photo of sample grab(s) taken | ✓ |
| Samples properly logged on COC form | |
| Proper persons have signed the COC | |
| Field notes have been recorded for site before moving to the next | ✓ |

4. Sample Storage:

| | |
|---|---|
| Toxicity samples properly stored on wet ice | ✓ |
| Chemistry samples properly stored on dry ice | ✓ |
| Infaunal samples properly relaxed and preserved with formalin | ✓ |
| Cooler is taped shut for transport to lab | |
| Completed COC is included in plastic bag in cooler | |

5. PPE properly removed and disposed of upon station completion _____

Additional Notes:

Signature of QA/QC Personnel:  Date/Time: 7/12/13 0945
Print Name/Company: John Rudolph AMEC

STATION OCCUPATION

BIGHT'13

Agency Code POLA/PUB

Weather

Clear
 Overcast
 Partly cloudy
 Drizzle

Rain
 Thunderstorm
 Fog

Sea State

Calm
 Choppy
 Rough

Salinity (ppt)

At estuary Sites only

Station ID 013-8384

Date 7/12/13

Vessel Name Early Bird

Arrival Time 0905
 (hh:mm)

Abandoned site? Station Fail Code
 Y or N (if Y explain in comments)

Wind

Speed (kts) 3.6
 Direction (4) SE

Swell

Period (s) 0
 Height (ft) 0
 Direction (4) 0

Nav Type

DGPS
 GPS

Station Comments

Equipment Type

Van Veen
 Tandem Van Veen

GRAB EVENTS

Sample types (Chk all that apply)

| # | Time (hh:mm) | Latitude (DD°MM.mmmmm) | Longitude (DD°MM.mmmmm) | Depth (m) | Distance to target (m) | Grab Fail Code (6) | Penetration (cm) | Composition (1) | Odor (2) | Color (3) | Shell Hash (Y/N) | Infauna | Sed Chem | Grain Size | Sed Tox | Debris (Y/N) | Photos |
|---|----------------------|------------------------|-------------------------|-----------|------------------------|--------------------|------------------|-----------------|----------|-----------|------------------|---------|----------|------------|---------|--------------|-----------|
| | 0913 | 33.75626 | -118.27742 | 17.5 | 45 | None | 16 | Silt | N | Olive | N | X | X | X | | N | 0867-0868 |
| | Grab Event Comments: | | | | | | | | | | | | | | | | |
| | 0929 | 33.75694 | -118.27732 | 17.6 | 48 | None | 16 | Silt | N | Olive | N | | | | X | N | 0869-0870 |
| | Grab Event Comments: | | | | | | | | | | | | | | | | |
| | Grab Event Comments: | | | | | | | | | | | | | | | | |
| | Grab Event Comments: | | | | | | | | | | | | | | | | |
| | Grab Event Comments: | | | | | | | | | | | | | | | | |

- Sediment Composition: Coarse sand, Fine sand, Silt/clay, Gravel, Cobble, Mixed
 - Sediment Odor: None (N), Petroleum (P), Hydrogen sulfide (HS), Humic (HU), Other (O, describe in comments)
 - Sediment Color: Brown, Gray, Black, Olive green, Red
 - Directions: N, NE, E, SE, S, SW, W, NW, or XX for calm
 - Station Fail codes: None, Temporary - sea conditions (comment req.), Temporary - atmosphere (comment req.), Temporary - mechanical (comment req.), Pre-abandoned (comment req.), Site On Land (comment req.), Vessel safety (comment req.), No Access Allowed (comment req.), Prolonged rough seas, Bottom salinity <25psu, Too Shallow (comment req.), Too many Event Failures (comment req.), Anthropogenic obstruction (comment req.), Natural hard bottom obstructions (comment req.), Not sampleable - other (comment req.)
- Grab Fail codes: None, Outside Radius Limit, Outside Target Depth, Premature closure, Flipped, Rocks/gravel, Dead shell, Live animal (comment req.), Debris (comment req.), Poor closure - other (comment req.), Heavily Canted, Large Humping, Washed, Disturbed Surface, < 5 cm Penetration, <= 7 cm Penetration - biology only

FIELD SAMPLING QA CHECKLIST

Station Location: B13-8340

Arrival Date/Time: 7/12/13 0818

Site Acceptable for Sampling: (Y) or N If No, reason: _____

Mark each box with Y, N, or NA

Field Procedures

1. Upon arriving at the sampling location, the following site observations are recorded:

| | |
|--|---|
| Is site accessible? | Y |
| Depth and benthic salinity recorded. Within limits? (>3m embayments; ≥25pt salinity) | Y |
| Vessel has been anchored (or tied off) | N |
| Station DGPS coordinates (± 3 m) recorded | Y |
| Station occupation form completed | Y |

float

2. Sampling procedures:

| | |
|---|---|
| Field staff wearing fresh, powder free nitrile gloves | Y |
| Equipment washed/rinsed from previous station | Y |
| Vessel engine has been shut off for 5 minutes prior to sampling | Y |
| Sampling instrument washed with Alconox | Y |
| Sampling instrument given site water rinse prior to deployment | Y |
| Sample bottles correctly labeled (minimum: station id, date, agency, parameter) | Y |
| Sample bottles are lab certified, contaminant free | Y |
| Samples containers are the correct type in accordance with Table 5-2 in the Bight'13 QAM | Y |
| Sample condition meets acceptability criteria (e.g. no surface disturbance, leakage, canting, or washing) | Y |
| Sample penetration meets acceptability criteria (e.g. minimum 5cm for chem/tox; 7cm for infauna) | Y |
| Record grab disposition / characteristic information | Y |
| Samples collected in the following order: infaunal, chemistry, toxicity | Y |
| Chem/Tox samples collected from top 5cm, and 1cm from sides of grab | Y |
| Sediment evenly distributed among containers | Y |
| Stainless steel scoop used to distribute sediment | Y |
| Staff avoided contaminating samples at all times | Y |
| COC seals have been placed over individual sample bottles | Y |
| Site replicate (i.e., duplicate) collected (if applicable) | — |

FIELD SAMPLING QA CHECKLIST

3. Data Recording:

| | |
|---|---|
| Photo of sample grab(s) taken | Y |
| Samples properly logged on COC form | |
| Proper persons have signed the COC | |
| Field notes have been recorded for site before moving to the next | Y |

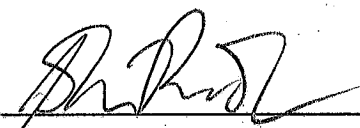
4. Sample Storage:

| | |
|---|---|
| Toxicity samples properly stored on wet ice | Y |
| Chemistry samples properly stored on dry ice | Y |
| Infaunal samples properly relaxed and preserved with formalin | Y |
| Cooler is taped shut for transport to lab | |
| Completed COC is included in plastic bag in cooler | |

5. PPE properly removed and disposed of upon station completion Y

Additional Notes:

Signature of QA/QC Personnel:



Date/Time:

7/12/13 0850

Print Name/Company:

John Rudolph AMEC

STATION OCCUPATION

BIGHT'13

Agency Code POLA/POLB

Weather

Clear
 Overcast
 Partly cloudy
 Drizzle

Rain
 Thunderstorm
 Fog

Sea State

Calm
 Choppy
 Rough

Salinity (ppt)

At estuary Sites only

Station ID B17-8340

Date 7/12/13

Vessel Name Early Bird

Arrival Time 0818
 (hh:mm)

Abandoned site?

Y or N (if Y explain in comments)

Station Fail Code

Wind

Speed (kts) 0
 Direction (4) -

Swell

Period (s) 0
 Height (ft) 0
 Direction (4) 0

Nav Type

DGPS
 GPS

Station Comments

Equipment Type

Van Veen
 Tandem Van Veen

GRAB EVENTS

Sample types (Chk all that apply)

| # | Time (hh:mm) | Latitude (DD°MM.mmm) | Longitude (DD°MM.mmm) | Depth (m) | Distance to target (m) | Grab Fail Code (6) | Penetration (cm) | Composition (1) | Odor (2) | Color (3) | Shell Hash (Y/N) | Infauna | Sed Chem | Grain Size | Sed Tox | Debris (Y/N) | Photos |
|---|----------------------|----------------------|-----------------------|-----------|------------------------|--------------------|------------------|-----------------|----------|-----------|------------------|---------|----------|------------|---------|--------------|-----------|
| | 0819 | 33.73549 | -118.27676 | 18.2 | 22 | None | 16 | Silt | N | Olive | N | X | X | X | | N | 0863-0864 |
| | Grab Event Comments: | | | | | | | | | | | | | | | | |
| | 0836 | 33.73538 | -118.27677 | 18.2 | 21 | None | 16 | Silt | N | Olive | N | | | | X | Y | |
| | Grab Event Comments: | | | | | | | | | | | | | | | | |
| | Grab Event Comments: | | | | | | | | | | | | | | | | |
| | Grab Event Comments: | | | | | | | | | | | | | | | | |
| | Grab Event Comments: | | | | | | | | | | | | | | | | |

- Sediment Composition: Coarse sand, Fine sand, Silt/clay, Gravel, Cobble, Mixed
- Sediment Odor: None (N), Petroleum (P), Hydrogen sulfide (HS), Humic (HU), Other (O, describe in comments)
- Sediment Color: Brown, Gray, Black, Olive green, Red
- Directions: N, NE, E, SE, S, SW, W, NW, or XX for calm
- Station Fail codes: None, Temporary - sea conditions (comment req.), Temporary - atmosphere (comment req.), Temporary - mechanical (comment req.), Pre-abandoned (comment req.), Site On Land (comment req.), Vessel safety (comment req.), No Access Allowed (comment req.), Prolonged rough seas, Bottom salinity <25psu, Too Shallow (comment req.), Too many Event Failures (comment req.), Anthropogenic obstruction (comment req.), Natural hard bottom obstructions (comment req.), Not sampleable - other (comment req.)

Grab Fail codes: None, Outside Radius Limit, Outside Target Depth, Premature closure, Flipped, Rocks/gravel, Dead shell, Live animal (comment req.), Debris (comment req.), Poor closure - other (comment req.), Heavily Canted, Large Humping, Washed, Disturbed Surface, < 5 cm Penetration, <= 7 cm Penetration - biology only

BIGHT'13 SAMPLE TRACKING FORM

AGENCY: POLA/POLB

Page 1 of 1

DATE: 7/11/13

COMPLETED BY: JR

GS Chem Arch Tox Trash

| Station | Sample Time | # of 4.5 oz Jars | # of 8 oz Jars | # of 16 oz Jars | # of 1 L Jars | # of 1 Gal Ziplocs |
|----------------|-------------|------------------|----------------|-----------------|---------------|--------------------|
| * B13-8309 | 0821 | — | — | — | — | — |
| B13-8302 | 0929 | 1 | 5 | 1 | 5 | 0 |
| B13-8316 | 1023 | 1 | 5 | 1 | 5 | 2 |
| TMDL1-CH | 1207 | 1 | 3 | 1 | 5 | 0 |
| B13-8306 | 1300 | 1 | 5 | 1 | 5 | 0 |
| B13-8367 | 1410 | 1 | 5 | 1 | 5 | 0 |
| TMDL2-FH | 1525 | 1 | 3 | 1 | 5 | 0 |
| *Dup- TMDL5-DT | 1525 | 1 | 3 | 1 | 0 | 0 |
| B13-8304 | 1624 | 1 | 5 | 1 | 5 | 0 |
| B13-8308 | 1706 | 1 | 5 | 1 | 5 | 0 |
| B13-8310 | 1751 | 1 | 5 | 1 | 5 | 0 |
| | | | | | | |
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* Site abandoned after 9 attempts
All sample times for chem only

FIELD SAMPLING QA CHECKLIST

Station Location: B13-8310

Arrival Date/Time: 7/11/13

Site Acceptable for Sampling: (Y) or N If No, reason: _____

Mark each box with Y, N, or NA

Field Procedures

1. Upon arriving at the sampling location, the following site observations are recorded:

| | |
|--|---|
| Is site accessible? | Y |
| Depth and benthic salinity recorded. Within limits? (>3m embayments; ≥25pt salinity) | Y |
| Vessel has been anchored (or tied off) | Y |
| Station DGPS coordinates (± 3 m) recorded | Y |
| Station occupation form completed | Y |

2. Sampling procedures:

| | |
|---|---|
| Field staff wearing fresh, powder free nitrile gloves | Y |
| Equipment washed/rinsed from previous station | Y |
| Vessel engine has been shut off for 5 minutes prior to sampling | Y |
| Sampling instrument washed with Alconox | Y |
| Sampling instrument given site water rinse prior to deployment | Y |
| Sample bottles correctly labeled (minimum: station id, date, agency, parameter) | Y |
| Sample bottles are lab certified, contaminant free | Y |
| Samples containers are the correct type in accordance with Table 5-2 in the Bight'13 QAM | Y |
| Sample condition meets acceptability criteria (e.g. no surface disturbance, leakage, canting, or washing) | Y |
| Sample penetration meets acceptability criteria (e.g. minimum 5cm for chem/tox; 7cm for infauna) | Y |
| Record grab disposition / characteristic information | Y |
| Samples collected in the following order: infaunal, chemistry, toxicity | Y |
| Chem/Tox samples collected from top 5cm, and 1cm from sides of grab | Y |
| Sediment evenly distributed among containers | Y |
| Stainless steel scoop used to distribute sediment | Y |
| Staff avoided contaminating samples at all times | Y |
| COC seals have been placed over individual sample bottles | Y |
| Site replicate (i.e., duplicate) collected (if applicable) | — |

FIELD SAMPLING QA CHECKLIST

3. Data Recording:

| | |
|---|---|
| Photo of sample grab(s) taken | Y |
| Samples properly logged on COC form | |
| Proper persons have signed the COC | |
| Field notes have been recorded for site before moving to the next | Y |

4. Sample Storage:

| | |
|---|---|
| Toxicity samples properly stored on wet ice | Y |
| Chemistry samples properly stored on dry ice | Y |
| Infaunal samples properly relaxed and preserved with formalin | Y |
| Cooler is taped shut for transport to lab | |
| Completed COC is included in plastic bag in cooler | |

5. PPE properly removed and disposed of upon station completion Y

Additional Notes:

Signature of QA/QC Personnel:



Date/Time:

7/11/13 1816

Print Name/Company:

John Rudolph AMEC

STATION OCCUPATION

BIGHT'13

Agency Code PAK/PAU

Weather

Clear
 Overcast
 Partly cloudy
 Drizzle

Rain
 Thunderstorm
 Fog

Sea State

Calm
 Choppy
 Rough

Salinity (ppt)

At estuary Sites only

Station ID BE-8310

Date 7/11/13

Vessel Name Early Bird

Arrival Time 1749
 (hh:mm)

Abandoned site?

Y or N (If Y explain in comments)

Station Fail Code

Wind

Speed (kts) 0

Direction (4) -

Swell

Period (s) 0

Height (ft) 0

Direction (4) 0

Nav Type

DGPS

GPS

Equipment Type

Van Veen

Tandem Van Veen

Station Comments

GRAB EVENTS

Sample types (Chk all that apply)

| # | Time (hh:mm) | Latitude (DD°MM.mmm) | Longitude (DD°MM.mmm) | Depth (m) | Distance to target (m) | Grab Fail Code (6) | Penetration (cm) | Composition (1) | Odor (2) | Color (3) | Shell Hash (Y/N) | Infauna | Sed Chem | Grain Size | Sed Tox | Debris (Y/N) | Photos |
|---|----------------------|----------------------|-----------------------|-----------|------------------------|--------------------|------------------|-----------------|----------|-----------|------------------|---------|----------|------------|---------|--------------|-----------|
| | 1751 | 33.71791 | -118.23298 | 14.2 | 12 | None | 16 | Silt | N | Olive | N | X | X | X | | N | 0859-0860 |
| | Grab Event Comments: | | | | | | | | | | | | | | | | |
| | 1805 | 33.71787 | -118.23287 | 14.1 | 14 | None | 16 | Silt | N | Olive | N | | | | X | N | 0861-0862 |
| | Grab Event Comments: | | | | | | | | | | | | | | | | |
| | Grab Event Comments: | | | | | | | | | | | | | | | | |
| | Grab Event Comments: | | | | | | | | | | | | | | | | |
| | Grab Event Comments: | | | | | | | | | | | | | | | | |

- 1 Sediment Composition: Coarse sand, Fine sand, Silt/clay, Gravel, Cobble, Mixed
- 2 Sediment Odor: None (N), Petroleum (P), Hydrogen sulfide (HS), Humic (HU), Other (O, describe in comments)
- 3 Sediment Color: Brown, Gray, Black, Olive green, Red
- 4 Directions: N, NE, E, SE, S, SW, W, NW, or XX for calm
- 5 Station Fail codes: None, Temporary - sea conditions (comment req.), Temporary - atmosphere (comment req.), Temporary - mechanical (comment req.), Pre-abandoned (comment req.), Site On Land (comment req.), Vessel safety (comment req.), No Access Allowed (comment req.), Prolonged rough seas, Bottom salinity <25psu, Too Shallow (comment req.), Too many Event Failures (comment req.), Anthropogenic obstruction (comment req.), Natural hard bottom obstructions (comment req.), Not sampleable - other (comment req.)

Grab Fail codes: None, Outside Radius Limit, Outside Target Depth, Premature closure, Flipped, Rocks/gravel, Dead shell, Live animal (comment req.), Debris (comment req.), Poor closure - other (comment req.), Heavily Canted, Large Humping, Washed, Disturbed Surface, < 5 cm Penetration, <= 7 cm Penetration - biology only

FIELD SAMPLING QA CHECKLIST

Station Location: B13-8308

Arrival Date/Time: 7/11/13 1700

Site Acceptable for Sampling: (Y) or N If No, reason: _____

Mark each box with Y, N, or NA

Field Procedures

1. Upon arriving at the sampling location, the following site observations are recorded:

| | |
|--|---|
| Is site accessible? | Y |
| Depth and benthic salinity recorded. Within limits? (>3m embayments; ≥25pt salinity) | Y |
| Vessel has been anchored (or tied off) | Y |
| Station DGPS coordinates (± 3 m) recorded | Y |
| Station occupation form completed | Y |

2. Sampling procedures:

| | |
|---|---|
| Field staff wearing fresh, powder free nitrile gloves | Y |
| Equipment washed/rinsed from previous station | Y |
| Vessel engine has been shut off for 5 minutes prior to sampling | Y |
| Sampling instrument washed with Alconox | Y |
| Sampling instrument given site water rinse prior to deployment | Y |
| Sample bottles correctly labeled (minimum: station id, date, agency, parameter) | Y |
| Sample bottles are lab certified, contaminant free | Y |
| Samples containers are the correct type in accordance with Table 5-2 in the Bight'13 QAM | Y |
| Sample condition meets acceptability criteria (e.g. no surface disturbance, leakage, canting, or washing) | Y |
| Sample penetration meets acceptability criteria (e.g. minimum 5cm for chem/tox; 7cm for infauna) | Y |
| Record grab disposition / characteristic information | Y |
| Samples collected in the following order: infaunal, chemistry, toxicity | Y |
| Chem/Tox samples collected from top 5cm, and 1cm from sides of grab | Y |
| Sediment evenly distributed among containers | Y |
| Stainless steel scoop used to distribute sediment | Y |
| Staff avoided contaminating samples at all times | Y |
| COC seals have been placed over individual sample bottles | Y |
| Site replicate (i.e., duplicate) collected (if applicable) | - |

FIELD SAMPLING QA CHECKLIST

3. Data Recording:

| | |
|---|---|
| Photo of sample grab(s) taken | Y |
| Samples properly logged on COC form | |
| Proper persons have signed the COC | |
| Field notes have been recorded for site before moving to the next | Y |

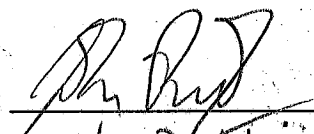
4. Sample Storage:

| | |
|---|---|
| Toxicity samples properly stored on wet ice | Y |
| Chemistry samples properly stored on dry ice | Y |
| Infaunal samples properly relaxed and preserved with formalin | Y |
| Cooler is taped shut for transport to lab | |
| Completed COC is included in plastic bag in cooler | |

5. PPE properly removed and disposed of upon station completion _____

Additional Notes:

Signature of QA/QC Personnel:



Date/Time:

7/11/13 1737

Print Name/Company:

John Rudolph AMEC

STATION OCCUPATION

BIGHT'13

Agency Code POLA/POLB

Weather

Clear
 Overcast
 Partly cloudy
 Drizzle

Rain
 Thunderstorm
 Fog

Sea State

Calm
 Choppy
 Rough

Salinity (ppt)

At estuary Sites only

Station ID BIS-8308

Date 7/11/13

Vessel Name Early Bird

Arrival Time 1700
 (hh:mm)

Abandoned site?

Y or N (If Y explain in comments)

Station Fail Code

Wind

Speed (kts) 2.1
 Direction (4) 5

Swell

Period (s) 0
 Height (ft) 0
 Direction (4) 0

Nav Type

DGPS
 GPS

Station Comments

Equipment Type

Van Veen
 Tandem Van Veen

GRAB EVENTS

Sample types (Chk all that apply)

| # | Time (hh:mm) | Latitude (DD°MM.mmmmm) | Longitude (DD°MM.mmmmm) | Depth (m) | Distance to target (m) | Grab Fail Code (6) | Penetration (cm) | Composition (1) | Odor (2) | Color (3) | Shell Hash (Y/N) | Infauna | Sed Chem | Grain Size | Sed Tox | Debris (Y/N) | Photos |
|----------------------|--------------|------------------------|-------------------------|-----------|------------------------|--------------------|------------------|-----------------|----------|-----------|------------------|---------|----------|------------|---------|--------------|-----------|
| | 1706 | 33.71746 | -118.24385 | 23.3 | 36 | None | 16 | Silt | N | Olive | N | X | X | X | | N | 0854-0855 |
| Grab Event Comments: | | | | | | | | | | | | | | | | | |
| | 1725 | 33.71732 | -118.24384 | 22.9 | 29 | None | 16 | Silt | N | Olive | N | | | | X | N | 0856-0858 |
| Grab Event Comments: | | | | | | | | | | | | | | | | | |
| Grab Event Comments: | | | | | | | | | | | | | | | | | |
| Grab Event Comments: | | | | | | | | | | | | | | | | | |
| Grab Event Comments: | | | | | | | | | | | | | | | | | |

- 1 Sediment Composition: Coarse sand, Fine sand, Silt/clay, Gravel, Cobble, Mixed
- 2 Sediment Odor: None (N), Petroleum (P), Hydrogen sulfide (HS), Humic (HU), Other (O, describe in comments)
- 3 Sediment Color: Brown, Gray, Black, Olive green, Red
- 4 Directions: N, NE, E, SE, S, SW, W, NW, or XX for calm
- 5 Station Fail codes: None, Temporary - sea conditions (comment req.), Temporary - atmosphere (comment req.), Temporary - mechanical (comment req.), Pre-abandoned (comment req.), Site On Land (comment req.), Vessel safety (comment req.), No Access Allowed (comment req.), Prolonged rough seas, Bottom salinity <25psu, Too Shallow (comment req.), Too many Event Failures (comment req.), Anthropogenic obstruction (comment req.), Natural hard bottom obstructions (comment req.), Not sampleable - other (comment req.)

Grab Fail codes: None, Outside Radius Limit, Outside Target Depth, Premature closure, Flipped, Rocks/gravel, Dead shell, Live animal (comment req.), Debris (comment req.), Poor closure - other (comment req.), Heavily Canted, Large Humping, Washed, Disturbed Surface, < 5 cm Penetration, <= 7 cm Penetration - biology only

FIELD SAMPLING QA CHECKLIST

Station Location: B13-8304

Arrival Date/Time: 7/11/13

Site Acceptable for Sampling: (Y) or N If No, reason: _____

Mark each box with Y, N, or NA

Field Procedures

1. Upon arriving at the sampling location, the following site observations are recorded:

| | |
|--|---|
| Is site accessible? | Y |
| Depth and benthic salinity recorded. Within limits? (>3m embayments; ≥25pt salinity) | Y |
| Vessel has been anchored (or tied off) | N |
| Station DGPS coordinates (± 3 m) recorded | Y |
| Station occupation form completed | Y |

float

2. Sampling procedures:

| | |
|---|---|
| Field staff wearing fresh, powder free nitrile gloves | Y |
| Equipment washed/rinsed from previous station | Y |
| Vessel engine has been shut off for 5 minutes prior to sampling | Y |
| Sampling instrument washed with Alconox | Y |
| Sampling instrument given site water rinse prior to deployment | Y |
| Sample bottles correctly labeled (minimum: station id, date, agency, parameter) | Y |
| Sample bottles are lab certified, contaminant free | Y |
| Samples containers are the correct type in accordance with Table 5-2 in the Bight '13 QAM | Y |
| Sample condition meets acceptability criteria (e.g. no surface disturbance, leakage, canting, or washing) | Y |
| Sample penetration meets acceptability criteria (e.g. minimum 5cm for chem/tox; 7cm for infauna) | Y |
| Record grab disposition / characteristic information | Y |
| Samples collected in the following order: infaunal, chemistry, toxicity | Y |
| Chem/Tox samples collected from top 5cm, and 1cm from sides of grab | Y |
| Sediment evenly distributed among containers | Y |
| Stainless steel scoop used to distribute sediment | Y |
| Staff avoided contaminating samples at all times | Y |
| COC seals have been placed over individual sample bottles | Y |
| Site replicate (i.e., duplicate) collected (if applicable) | — |

FIELD SAMPLING QA CHECKLIST

3. Data Recording:

| | |
|---|---|
| Photo of sample grab(s) taken | Y |
| Samples properly logged on COC form | |
| Proper persons have signed the COC | |
| Field notes have been recorded for site before moving to the next | Y |

4. Sample Storage:

| | |
|---|---|
| Toxicity samples properly stored on wet ice | Y |
| Chemistry samples properly stored on dry ice | Y |
| Infaunal samples properly relaxed and preserved with formalin | Y |
| Cooler is taped shut for transport to lab | |
| Completed COC is included in plastic bag in cooler | |

5. PPE properly removed and disposed of upon station completion Y

Additional Notes:

Signature of QA/QC Personnel:

Date/Time:

7/11/13 1658

Print Name/Company:

John Rudolph AMEC

STATION OCCUPATION

BIGHT'13

Agency Code POLA/POLB

Weather

Clear
 Overcast
 Partly cloudy
 Drizzle

Rain
 Thunderstorm
 Fog

Sea State

Calm
 Choppy
 Rough

Salinity (ppt)

At estuary Sites only

Station ID 813-8304

Date 7/11/13

Vessel Name Early Bird

Arrival Time 1622
 (hh:mm)

Abandoned site?
 Y or N (If Y explain in comments)

Station Fail Code

Wind

Speed (kts) 2.0
 Direction (4) 5

Swell

Period (s) 0
 Height (ft) 0
 Direction (4) 0

Nav Type

DGPS
 GPS

Station Comments

Equipment Type

Van Veen
 Tandem Van Veen

GRAB EVENTS

Sample types (Chk all that apply)

| # | Time (hh:mm) | Latitude (DD°MM.mmm) | Longitude (DD°MM.mmm) | Depth (m) | Distance to target (m) | Grab Fail Code (6) | Penetration (cm) | Composition (1) | Odor (2) | Color (3) | Shell Hash (Y/N) | Infauna | Sed Chem | Grain Size | Sed Tox | Debris (Y/N) | Photos |
|----------------------|--------------|----------------------|-----------------------|-----------|------------------------|--------------------|------------------|-----------------|----------|-----------|------------------|---------|----------|------------|---------|--------------|--------------|
| | 1624 | 33.71345 | -118.24131 | 24.3 | 64 | None | 16 | Silt | N | Olive | N | X | X | X | | N | 0848 0850 |
| Grab Event Comments: | | | | | | | | | | | | | | | | | |
| | 1643 | 33.71350 | -118.24187 | 24.5 | 12 | None | 16 | Silt | N | Olive | N | | | | X | N | 0851 0852 |
| Grab Event Comments: | | | | | | | | | | | | | | | | | |
| Grab Event Comments: | | | | | | | | | | | | | | | | | |
| Grab Event Comments: | | | | | | | | | | | | | | | | | |
| Grab Event Comments: | | | | | | | | | | | | | | | | | |

- Sediment Composition: Coarse sand, Fine sand, Silt/clay, Gravel, Cobble, Mixed
- Sediment Odor: None (N), Petroleum (P), Hydrogen sulfide (HS), Humic (HU), Other (O, describe in comments)
- Sediment Color: Brown, Gray, Black, Olive green, Red
- Directions: N, NE, E, SE, S, SW, W, NW, or XX for calm
- Station Fail codes: None, Temporary - sea conditions (comment req.), Temporary - atmosphere (comment req.), Temporary - mechanical (comment req.), Pre-abandoned (comment req.), Site On Land (comment req.), Vessel safety (comment req.), No Access Allowed (comment req.), Prolonged rough seas, Bottom salinity <25psu, Too Shallow (comment req.), Too many Event Failures (comment req.), Anthropogenic obstruction (comment req.), Natural hard bottom obstructions (comment req.), Not sampleable - other (comment req.)

Grab Fail codes: None, Outside Radius Limit, Outside Target Depth, Premature closure, Flipped, Rocks/gravel, Dead shell, Live animal (comment req.), Debris (comment req.), Poor closure - other (comment req.), Heavily Canted, Large Humping, Washed, Disturbed Surface, < 5 cm Penetration, <= 7 cm Penetration - biology only

FIELD SAMPLING QA CHECKLIST

Station Location: TMDL2-FH, TMDL5-DT Arrival Date/Time: 7/11/13 NOV

Site Acceptable for Sampling: Y or N If No, reason: _____

Mark each box with Y, N, or NA

Field Procedures

1. Upon arriving at the sampling location, the following site observations are recorded:

| | |
|--|---|
| Is site accessible? | Y |
| Depth and benthic salinity recorded. Within limits? (>3m embayments; ≥25pt salinity) | Y |
| Vessel has been anchored (or tied off) | Y |
| Station DGPS coordinates (± 3 m) recorded | Y |
| Station occupation form completed | Y |

2. Sampling procedures:

| | |
|---|---|
| Field staff wearing fresh, powder free nitrile gloves | Y |
| Equipment washed/rinsed from previous station | Y |
| Vessel engine has been shut off for 5 minutes prior to sampling | Y |
| Sampling instrument washed with Alconox | Y |
| Sampling instrument given site water rinse prior to deployment | Y |
| Sample bottles correctly labeled (minimum: station id, date, agency, parameter) | Y |
| Sample bottles are lab certified, contaminant free | Y |
| Samples containers are the correct type in accordance with Table 5-2 in the Bight' 13 QAM | Y |
| Sample condition meets acceptability criteria (e.g. no surface disturbance, leakage, canting, or washing) | Y |
| Sample penetration meets acceptability criteria (e.g. minimum 5cm for chem/tox; 7cm for infauna) | Y |
| Record grab disposition / characteristic information | Y |
| Samples collected in the following order: infaunal, chemistry, toxicity | Y |
| Chem/Tox samples collected from top 5cm, and 1cm from sides of grab | Y |
| Sediment evenly distributed among containers | Y |
| Stainless steel scoop used to distribute sediment | Y |
| Staff avoided contaminating samples at all times | Y |
| COC seals have been placed over individual sample bottles | Y |
| Site replicate (i.e., duplicate) collected (if applicable) | Y |

FIELD SAMPLING QA CHECKLIST

3. Data Recording:

| | |
|---|---|
| Photo of sample grab(s) taken | Y |
| Samples properly logged on COC form | |
| Proper persons have signed the COC | |
| Field notes have been recorded for site before moving to the next | Y |

4. Sample Storage:

| | |
|---|---|
| Toxicity samples properly stored on wet ice | Y |
| Chemistry samples properly stored on dry ice | Y |
| Infaunal samples properly relaxed and preserved with formalin | Y |
| Cooler is taped shut for transport to lab | |
| Completed COC is included in plastic bag in cooler | |

5. PPE properly removed and disposed of upon station completion Y

Additional Notes:

Signature of QA/QC Personnel:

Date/Time:

7/11/13 1557

Print Name/Company:

John Rudolph AMEC

STATION OCCUPATION

BIGHT'13

Agency Code POLA/POLD

Weather

Clear
 Overcast
 Partly cloudy
 Drizzle

Rain
 Thunderstorm
 Fog

Sea State

Calm
 Choppy
 Rough

Salinity (ppt)

At estuary Sites only

Station ID TMDLZ-FH

TMDLS-DT

Date 7/11/13

Vessel Name Early Bird

Arrival Time 1505
 (hh:mm)

Abandoned site?

Y or N (If Y explain in comments)

Station Fail Code

Wind

Speed (kts) 2.3
 Direction (4) 5

Swell

Period (s) 0
 Height (ft) 0
 Direction (4) 0

Nav Type

DGPS
 GPS

Station Comments

*- Dup Sample collected
 0 - slight HS odor grab 1+2
 - lots of dead mussel shells*

Equipment Type

Van Veen
 Tandem Van Veen

GRAB EVENTS

Sample types (Chk all that apply)

| # | Time (hh:mm) | Latitude (DD°MM.mmmmm) | Longitude (DD°MM.mmmmm) | Depth (m) | Distance to target (m) | Grab Fail Code (6) | Penetration (cm) | Composition (1) | Odor (2) | Color (3) | Shell Hash (Y/N) | Infauna | Sed Chem | Grain Size | Sed Tox | Debris (Y/N) | Photos |
|---|--------------|------------------------|-------------------------|-----------|------------------------|--------------------|------------------|-----------------|----------|-----------|------------------|---------|----------|------------|---------|--------------|-----------|
| | 1515 | 33 44.0716 | -118 15.9950 | 4.9 | 0 | None | 16 | Sandy Silt | 0 | gray/blk | N | X | | | | N | 0840-0841 |
| Grab Event Comments: <i>Benthics Only</i> | | | | | | | | | | | | | | | | | |
| | 1525 | 33.44.0716 | -118 15.9950 | 4.8 | 0 | None | 16 | Sandy Silt | 0 | gray/blk | N | | X | X | | N | 0842-0845 |
| Grab Event Comments: <i>Chem Only</i> | | | | | | | | | | | | | | | | | |
| | 1544 | 33 44.0716 | -118 15.9950 | 4.8 | 0 | None | 16 | Sandy Silt | 0 | gray/blk | N | | | | X | N | 0846-0847 |
| Grab Event Comments: <i>Tox Only</i> | | | | | | | | | | | | | | | | | |
| Grab Event Comments: | | | | | | | | | | | | | | | | | |
| Grab Event Comments: | | | | | | | | | | | | | | | | | |
| Grab Event Comments: | | | | | | | | | | | | | | | | | |

- Sediment Composition: Coarse sand, Fine sand, Silt/clay, Gravel, Cobble, Mixed
- Sediment Odor: None (N), Petroleum (P), Hydrogen sulfide (HS), Humic (HU), Other (O, describe in comments)
- Sediment Color: Brown, Gray, Black, Olive green, Red
- Directions: N, NE, E, SE, S, SW, W, NW, or XX for calm
- Station Fail codes: None, Temporary - sea conditions (comment req.), Temporary - atmosphere (comment req.), Temporary - mechanical (comment req.), Pre-abandoned (comment req.), Site On Land (comment req.), Vessel safety (comment req.), No Access Allowed (comment req.), Prolonged rough seas, Bottom salinity <25psu, Too Shallow (comment req.), Too many Event Failures (comment req.), Anthropogenic obstruction (comment req.), Natural hard bottom obstructions (comment req.), Not sampleable - other (comment req.)

Grab Fail codes: None, Outside Radius Limit, Outside Target Depth, Premature closure, Flipped, Rocks/gravel, Dead shell, Live animal (comment req.), Debris (comment req.), Poor closure - other (comment req.), Heavily Canted, Large Humping, Washed, Disturbed Surface, < 5 cm Penetration, <= 7 cm Penetration - biology only

FIELD SAMPLING QA CHECKLIST

Station Location: B13-8367

Arrival Date/Time: 7/11/13

Site Acceptable for Sampling: (Y) or N If No, reason: _____

Mark each box with Y, N, or NA

Field Procedures

1. Upon arriving at the sampling location, the following site observations are recorded:

| | |
|--|---|
| Is site accessible? | Y |
| Depth and benthic salinity recorded. Within limits? (>3m embayments; ≥25pt salinity) | Y |
| Vessel has been anchored (or tied off) | Y |
| Station DGPS coordinates (± 3 m) recorded | Y |
| Station occupation form completed | Y |

2. Sampling procedures:

| | |
|---|---|
| Field staff wearing fresh, powder free nitrile gloves | Y |
| Equipment washed/rinsed from previous station | Y |
| Vessel engine has been shut off for 5 minutes prior to sampling | Y |
| Sampling instrument washed with Alconox | Y |
| Sampling instrument given site water rinse prior to deployment | Y |
| Sample bottles correctly labeled (minimum: station id, date, agency, parameter) | Y |
| Sample bottles are lab certified, contaminant free | Y |
| Samples containers are the correct type in accordance with Table 5-2 in the Bight' 13 QAM | Y |
| Sample condition meets acceptability criteria (e.g. no surface disturbance, leakage, canting, or washing) | Y |
| Sample penetration meets acceptability criteria (e.g. minimum 5cm for chem/tox; 7cm for infauna) | Y |
| Record grab disposition / characteristic information | Y |
| Samples collected in the following order: infaunal, chemistry, toxicity | Y |
| Chem/Tox samples collected from top 5cm, and 1cm from sides of grab | Y |
| Sediment evenly distributed among containers | Y |
| Stainless steel scoop used to distribute sediment | Y |
| Staff avoided contaminating samples at all times | Y |
| COC seals have been placed over individual sample bottles | Y |
| Site replicate (i.e., duplicate) collected (if applicable) | — |

FIELD SAMPLING QA CHECKLIST

3. Data Recording:

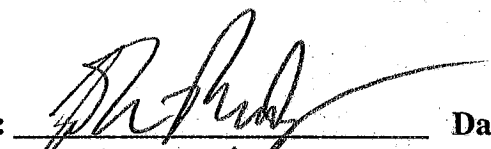
| | |
|---|---|
| Photo of sample grab(s) taken | Y |
| Samples properly logged on COC form | |
| Proper persons have signed the COC | |
| Field notes have been recorded for site before moving to the next | Y |

4. Sample Storage:

| | |
|---|---|
| Toxicity samples properly stored on wet ice | Y |
| Chemistry samples properly stored on dry ice | Y |
| Infaunal samples properly relaxed and preserved with formalin | Y |
| Cooler is taped shut for transport to lab | |
| Completed COC is included in plastic bag in cooler | |

5. PPE properly removed and disposed of upon station completion Y

Additional Notes:

Signature of QA/QC Personnel:  Date/Time: 7/11/13 1445
Print Name/Company: John Rudolph AMEC

STATION OCCUPATION

BIGHT'13

Agency Code POLA/POLB

Weather

Clear

Rain

Sea State

Calm

Salinity (ppt)

Station ID B13-8367

Vessel Name Early Bird

Overcast

Thunderstorm

Choppy

At estuary Sites only

Date 7/11/13

Arrival Time 1407
(hh:mm)

Partly cloudy

Fog

Rough

Abandoned site?

Station Fail Code

Y or N (If Y explain in comments)

Wind

Speed (kts) 3.4

Swell

Period (s) 0

Nav Type

DGPS

Direction (4) SE

Height (ft) 0

GPS

Direction (4) 0

Equipment Type

Van Veen

Tandem Van Veen

Station Comments

GRAB EVENTS

Sample types (Chk all that apply)

| # | Time (hh:mm) | Latitude (DD°MM.mmmmm) | Longitude (DD°MM.mmmmm) | Depth (m) | Distance to target (m) | Grab Fail Code (6) | Penetration (cm) | Composition (1) | Odor (2) | Color (3) | Shell Hash (Y/N) | Infauna | Sed Chem | Grain Size | Sed Tox | Debris (Y/N) | Photos |
|----------------------|--------------|------------------------|-------------------------|-----------|------------------------|--------------------|------------------|-----------------|----------|-----------|------------------|---------|----------|------------|---------|--------------|-----------|
| | 1410 | 33.74853 | -118.24890 | 3.8 | 27 | None | 6.5 | Fine Sand | None | Olive | N | X | X | X | | N | 0835-0836 |
| Grab Event Comments: | | | | | | | | | | | | | | | | | |
| | 1430 | 33.74855 | -118.24886 | 3.5 | 31 | None | 10.5 | Fine Sand | None | Olive | N | | | | X | N | 0837-0839 |
| Grab Event Comments: | | | | | | | | | | | | | | | | | |
| Grab Event Comments: | | | | | | | | | | | | | | | | | |
| Grab Event Comments: | | | | | | | | | | | | | | | | | |
| Grab Event Comments: | | | | | | | | | | | | | | | | | |

- 1 Sediment Composition: Coarse sand, Fine sand, Silt/clay, Gravel, Cobble, Mixed
- 2 Sediment Odor: None (N), Petroleum (P), Hydrogen sulfide (HS), Humic (HU), Other (O, describe in comments)
- 3 Sediment Color: Brown, Gray, Black, Olive green, Red
- 4 Directions: N, NE, E, SE, S, SW, W, NW, or XX for calm
- 5 Station Fail codes: None, Temporary - sea conditions (comment req.), Temporary - atmosphere (comment req.), Temporary - mechanical (comment req.), Pre-abandoned (comment req.), Site On Land (comment req.), Vessel safety (comment req.), No Access Allowed (comment req.), Prolonged rough seas, Bottom salinity <25psu, Too Shallow (comment req.), Too many Event Failures (comment req.), Anthropogenic obstruction (comment req.), Natural hard bottom obstructions (comment req.), Not sampleable - other (comment req.)

Grab Fail codes: None, Outside Radius Limit, Outside Target Depth, Premature closure, Flipped, Rocks/gravel, Dead shell, Live animal (comment req.), Debris (comment req.), Poor closure - other (comment req.), Heavily Canted, Large Humping, Washed, Disturbed Surface, < 5 cm Penetration, <= 7 cm Penetration - biology only

FIELD SAMPLING QA CHECKLIST

Station Location: B13-8306

Arrival Date/Time: 7/11/13

Site Acceptable for Sampling: (Y) or N If No, reason: _____

Mark each box with Y, N, or NA

Field Procedures

1. Upon arriving at the sampling location, the following site observations are recorded:

| | |
|--|---|
| Is site accessible? | Y |
| Depth and benthic salinity recorded. Within limits? (>3m embayments; ≥25pt salinity) | Y |
| Vessel has been anchored (or tied off) | Y |
| Station DGPS coordinates (± 3 m) recorded | Y |
| Station occupation form completed | Y |

2. Sampling procedures:

| | |
|---|---|
| Field staff wearing fresh, powder free nitrile gloves | Y |
| Equipment washed/rinsed from previous station | Y |
| Vessel engine has been shut off for 5 minutes prior to sampling | Y |
| Sampling instrument washed with Alconox | Y |
| Sampling instrument given site water rinse prior to deployment | Y |
| Sample bottles correctly labeled (minimum: station id, date, agency, parameter) | Y |
| Sample bottles are lab certified, contaminant free | Y |
| Samples containers are the correct type in accordance with Table 5-2 in the Bight' 13 QAM | Y |
| Sample condition meets acceptability criteria (e.g. no surface disturbance, leakage, canting, or washing) | Y |
| Sample penetration meets acceptability criteria (e.g. minimum 5cm for chem/tox; 7cm for infauna) | Y |
| Record grab disposition / characteristic information | Y |
| Samples collected in the following order: infaunal, chemistry, toxicity | Y |
| Chem/Tox samples collected from top 5cm, and 1cm from sides of grab | Y |
| Sediment evenly distributed among containers | Y |
| Stainless steel scoop used to distribute sediment | Y |
| Staff avoided contaminating samples at all times | Y |
| COC seals have been placed over individual sample bottles | Y |
| Site replicate (i.e., duplicate) collected (if applicable) | — |

FIELD SAMPLING QA CHECKLIST

3. Data Recording:

| | |
|---|---|
| Photo of sample grab(s) taken | Y |
| Samples properly logged on COC form | |
| Proper persons have signed the COC | |
| Field notes have been recorded for site before moving to the next | Y |

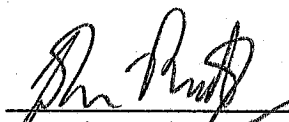
4. Sample Storage:

| | |
|---|---|
| Toxicity samples properly stored on wet ice | Y |
| Chemistry samples properly stored on dry ice | Y |
| Infaunal samples properly relaxed and preserved with formalin | Y |
| Cooler is taped shut for transport to lab | |
| Completed COC is included in plastic bag in cooler | |

5. PPE properly removed and disposed of upon station completion Y

Additional Notes:

Signature of QA/QC Personnel:



Date/Time:

7/11/13 1327

Print Name/Company:

John Rudolph AMEC

STATION OCCUPATION

BIGHT'13

Agency Code POLA/PALS

Weather

Clear
 Overcast
 Partly cloudy
 Drizzle

Rain
 Thunderstorm
 Fog

Sea State

Calm
 Choppy
 Rough

Salinity (ppt)

At estuary Sites only

Station ID B13-8306

Vessel Name Early Bird

Date 7/11/13

Arrival Time 1300
(hh:mm)

Abandoned site?

Y or N (If Y explain in comments)

Station Fail Code

Wind

Speed (kts) 3.8
 Direction (4) S

Swell

Period (s) 0
 Height (ft) 0
 Direction (4) 0

Nav Type

DGPS
 GPS

Station Comments

Equipment Type

Van Veen
 Tandem Van Veen

GRAB EVENTS

Sample types (Chk all that apply)

| # | Time (hh:mm) | Latitude (DD°MM.mmmmm) | Longitude (DD°MM.mmmmm) | Depth (m) | Distance to target (m) | Grab Fail Code (6) | Penetration (cm) | Composition (1) | Odor (2) | Color (3) | Shell Hash (Y/N) | Infauna | Sed Chem | Grain Size | Sed Tox | Debris (Y/N) | Photos |
|---|----------------------|------------------------|-------------------------|-----------|------------------------|--------------------|------------------|-----------------|----------|-----------|------------------|---------|----------|------------|---------|--------------|-----------|
| | 1300 | 33.71475 | -118.28269 | 3.4 | 8 | None | 16 | Silt | None | Olive | N | X | X | X | | N | 0831-0832 |
| | Grab Event Comments: | | | | | | | | | | | | | | | | |
| | 1318 | 33.71479 | -118.28268 | 3.5 | 8 | None | 16 | Silt | None | Olive | N | | | | X | N | 0833-0834 |
| | Grab Event Comments: | | | | | | | | | | | | | | | | |
| | Grab Event Comments: | | | | | | | | | | | | | | | | |
| | Grab Event Comments: | | | | | | | | | | | | | | | | |
| | Grab Event Comments: | | | | | | | | | | | | | | | | |

- Sediment Composition: Coarse sand, Fine sand, Silt/clay, Gravel, Cobble, Mixed
 - Sediment Odor: None (N), Petroleum (P), Hydrogen sulfide (HS), Humic (HU), Other (O, describe in comments)
 - Sediment Color: Brown, Gray, Black, Olive green, Red
 - Directions: N, NE, E, SE, S, SW, W, NW, or XX for calm
 - Station Fail codes: None, Temporary - sea conditions (comment req.), Temporary - atmosphere (comment req.), Temporary - mechanical (comment req.), Pre-abandoned (comment req.), Site On Land (comment req.), Vessel safety (comment req.), No Access Allowed (comment req.), Prolonged rough seas, Bottom salinity <25psu, Too Shallow (comment req.), Too many Event Failures (comment req.), Anthropogenic obstruction (comment req.), Natural hard bottom obstructions (comment req.), Not sampleable - other (comment req.)
- Grab Fail codes: None, Outside Radius Limit, Outside Target Depth, Premature closure, Flipped, Rocks/gravel, Dead shell, Live animal (comment req.), Debris (comment req.), Poor closure - other (comment req.), Heavily Canted, Large Humping, Washed, Disturbed Surface, < 5 cm Penetration, <= 7 cm Penetration - biology only

FIELD SAMPLING QA CHECKLIST

Station Location: TMDL1-CH

Arrival Date/Time: 7/11/13 1204

Site Acceptable for Sampling: (Y) or N If No, reason: _____

Mark each box with Y, N, or NA

Field Procedures

1. Upon arriving at the sampling location, the following site observations are recorded:

| | |
|--|---|
| Is site accessible? | Y |
| Depth and benthic salinity recorded. Within limits? (>3m embayments; ≥25pt salinity) | Y |
| Vessel has been anchored (or tied off) | Y |
| Station DGPS coordinates (± 3 m) recorded | Y |
| Station occupation form completed | Y |

2. Sampling procedures:

| | |
|---|---|
| Field staff wearing fresh, powder free nitrile gloves | Y |
| Equipment washed/rinsed from previous station | Y |
| Vessel engine has been shut off for 5 minutes prior to sampling | Y |
| Sampling instrument washed with Alconox | Y |
| Sampling instrument given site water rinse prior to deployment | Y |
| Sample bottles correctly labeled (minimum: station id, date, agency, parameter) | Y |
| Sample bottles are lab certified, contaminant free | Y |
| Samples containers are the correct type in accordance with Table 5-2 in the Bight' 13 QAM | Y |
| Sample condition meets acceptability criteria (e.g. no surface disturbance, leakage, canting, or washing) | Y |
| Sample penetration meets acceptability criteria (e.g. minimum 5cm for chem/tox; 7cm for infauna) | Y |
| Record grab disposition / characteristic information | Y |
| Samples collected in the following order: infaunal, chemistry, toxicity | Y |
| Chem/Tox samples collected from top 5cm, and 1cm from sides of grab | Y |
| Sediment evenly distributed among containers | Y |
| Stainless steel scoop used to distribute sediment | Y |
| Staff avoided contaminating samples at all times | Y |
| COC seals have been placed over individual sample bottles | Y |
| Site replicate (i.e., duplicate) collected (if applicable) | Y |

FIELD SAMPLING QA CHECKLIST

3. Data Recording:

| | |
|---|---|
| Photo of sample grab(s) taken | ✓ |
| Samples properly logged on COC form | |
| Proper persons have signed the COC | |
| Field notes have been recorded for site before moving to the next | ✓ |

4. Sample Storage:

| | |
|---|---|
| Toxicity samples properly stored on wet ice | ✓ |
| Chemistry samples properly stored on dry ice | ✓ |
| Infaunal samples properly relaxed and preserved with formalin | ✓ |
| Cooler is taped shut for transport to lab | |
| Completed COC is included in plastic bag in cooler | |

5. PPE properly removed and disposed of upon station completion _____

Additional Notes:

Signature of QA/QC Personnel: _____

Date/Time: 7/11/13 1238

Print Name/Company: _____

John Rodolph
John Rodolph AMEC

STATION OCCUPATION

BIGHT'13

Agency Code POLA/POLO

Weather

Sea State

Salinity (ppt)

Station ID TMDL-CH

Vessel Name Eady Bird

Clear

Rain

Calm

At estuary Sites only

Date 7/11/13

Arrival Time 1204
(hh:mm)

Overcast

Thunderstorm

Choppy

Partly cloudy

Fog

Rough

Drizzle

Abandoned site?

Station Fail Code

Y or N (If Y explain in comments)

Wind

Swell

Nav Type

Station Comments

Speed (kts) 1.2

Period (s) 0

DGPS

Direction (4) SE

Height (ft) 0

GPS

Direction (4) 0

Equipment Type

Van Veen

Tandem Van Veen

GRAB EVENTS

Sample types (Chk all that apply)

| # | Time (hh:mm) | Latitude (DD°MM.mmmmm) | Longitude (DD°MM.mmmmm) | Depth (m) | Distance to target (m) | Grab Fail Code (6) | Penetration (cm) | Composition (1) | Odor (2) | Color (3) | Shell Hash (Y/N) | Infauna | Sed Chem | Grain Size | Sed Tox | Debris (Y/N) | Photos |
|---|--------------|------------------------|-------------------------|-----------|------------------------|--------------------|------------------|-----------------|----------|-----------|------------------|---------|----------|------------|---------|--------------|-----------|
| | 1207 | 33.43.3347 | -118.16.7804 | 10.8 | 0 | None | 16 | Silt | None | BRN | N | X | X | X | | N | 0827-0828 |
| | 1224 | 33.43.3347 | -118.16.7804 | 10.9 | 0 | None | 16 | Silt | None | Gray | N | | | | X | N | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |

- Sediment Composition: Coarse sand, Fine sand, Silt/clay, Gravel, Cobble, Mixed
 - Sediment Odor: None (N), Petroleum (P), Hydrogen sulfide (HS), Humic (HU), Other (O, describe in comments)
 - Sediment Color: Brown, Gray, Black, Olive green, Red
 - Directions: N, NE, E, SE, S, SW, W, NW, or XX for calm
 - Station Fail codes: None, Temporary - sea conditions (comment req.), Temporary - atmosphere (comment req.), Temporary - mechanical (comment req.), Pre-abandoned (comment req.), Site On Land (comment req.), Vessel safety (comment req.), No Access Allowed (comment req.), Prolonged rough seas, Bottom salinity <25psu, Too Shallow (comment req.), Too many Event Failures (comment req.), Anthropogenic obstruction (comment req.), Natural hard bottom obstructions (comment req.), Not sampleable - other (comment req.)
- Grab Fail codes: None, Outside Radius Limit, Outside Target Depth, Premature closure, Flipped, Rocks/gravel, Dead shell, Live animal (comment req.), Debris (comment req.), Poor closure - other (comment req.), Heavily Canted, Large Humping, Washed, Disturbed Surface, < 5 cm Penetration, <= 7 cm Penetration - biology only

FIELD SAMPLING QA CHECKLIST

Station Location: B13-8316

Arrival Date/Time: 7/11/13 10¹⁵

Site Acceptable for Sampling: Y or N If No, reason: _____

Mark each box with Y, N, or NA

Field Procedures

1. Upon arriving at the sampling location, the following site observations are recorded:

| | |
|--|---|
| Is site accessible? | Y |
| Depth and benthic salinity recorded. Within limits? (>3m embayments; ≥25pt salinity) | Y |
| Vessel has been anchored (or tied off) | N |
| Station DGPS coordinates (± 3 m) recorded | Y |
| Station occupation form completed | Y |

float

2. Sampling procedures:

| | |
|---|---|
| Field staff wearing fresh, powder free nitrile gloves | Y |
| Equipment washed/rinsed from previous station | Y |
| Vessel engine has been shut off for 5 minutes prior to sampling | Y |
| Sampling instrument washed with Alconox | Y |
| Sampling instrument given site water rinse prior to deployment | Y |
| Sample bottles correctly labeled (minimum: station id, date, agency, parameter) | Y |
| Sample bottles are lab certified, contaminant free | Y |
| Samples containers are the correct type in accordance with Table 5-2 in the Bight '13 QAM | Y |
| Sample condition meets acceptability criteria (e.g. no surface disturbance, leakage, canting, or washing) | Y |
| Sample penetration meets acceptability criteria (e.g. minimum 5cm for chem/tox; 7cm for infauna) | Y |
| Record grab disposition / characteristic information | Y |
| Samples collected in the following order: infaunal, chemistry, toxicity | Y |
| Chem/Tox samples collected from top 5cm, and 1cm from sides of grab | Y |
| Sediment evenly distributed among containers | Y |
| Stainless steel scoop used to distribute sediment | Y |
| Staff avoided contaminating samples at all times | Y |
| COC seals have been placed over individual sample bottles | Y |
| Site replicate (i.e., duplicate) collected (if applicable) | — |

FIELD SAMPLING QA CHECKLIST

3. Data Recording:

| | |
|---|---|
| Photo of sample grab(s) taken | Y |
| Samples properly logged on COC form | |
| Proper persons have signed the COC | |
| Field notes have been recorded for site before moving to the next | Y |

4. Sample Storage:

| | |
|---|---|
| Toxicity samples properly stored on wet ice | Y |
| Chemistry samples properly stored on dry ice | Y |
| Infaunal samples properly relaxed and preserved with formalin | Y |
| Cooler is taped shut for transport to lab | |
| Completed COC is included in plastic bag in cooler | |

5. PPE properly removed and disposed of upon station completion Y

Additional Notes:

Signature of QA/QC Personnel: 

Date/Time: 7/11/13 1100

Print Name/Company: John Rudolph AMEC

STATION OCCUPATION

BIGHT'13

Agency Code

Weather

Clear
 Overcast
 Partly cloudy
 Drizzle

Rain
 Thunderstorm
 Fog

Sea State

Calm
 Choppy
 Rough

Salinity (ppt)

At estuary Sites only

Station ID

Vessel Name

Date

Arrival Time
(hh:mm)

Abandoned site?

Y or N (If Y explain in comments)

Station Fail Code

Wind
 Speed (kts)
 Direction (4)

Swell

Period (s)
 Height (ft)
 Direction (4)

Nav Type

DGPS
 GPS

Station Comments

Equipment Type

Van Veen
 Tandem Van Veen

GRAB EVENTS

Sample types (Chk all that apply)

| # | Time (hh:mm) | Latitude (DD°MM.mmmm) | Longitude (DD°MM.mmmm) | Depth (m) | Distance to target (m) | Grab Fail Code (6) | Penetration (cm) | Composition (1) | Odor (2) | Color (3) | Shell Hash (Y/N) | Infauna | Sed Chem | Grain Size | Sed Tox | Debris (Y/N) | Photos |
|----------------------|--------------|-----------------------|------------------------|-----------|------------------------|--------------------|------------------|-----------------|----------|-----------|------------------|---------|----------|------------|---------|--------------|-----------|
| | 1023 | 33.72387 | -118.26270 | 27.1 | 28 | None | 16 | Silt | None | Olive | N | X | X | X | | N | 0813-0814 |
| Grab Event Comments: | | | | | | | | | | | | | | | | | |
| | 1045 | 33.72395 | -118.26262 | 27.1 | 35 | None | 16 | Silt | None | Olive | N | | | | X | N | 0814-0825 |
| Grab Event Comments: | | | | | | | | | | | | | | | | | |
| Grab Event Comments: | | | | | | | | | | | | | | | | | |
| Grab Event Comments: | | | | | | | | | | | | | | | | | |
| Grab Event Comments: | | | | | | | | | | | | | | | | | |

- 1 Sediment Composition: Coarse sand, Fine sand, Silt/clay, Gravel, Cobble, Mixed
 - 2 Sediment Odor: None (N), Petroleum (P), Hydrogen sulfide (HS), Humic (HU), Other (O, describe in comments)
 - 3 Sediment Color: Brown, Gray, Black, Olive green, Red
 - 4 Directions: N, NE, E, SE, S, SW, W, NW, or XX for calm
 - 5 Station Fail codes: None, Temporary - sea conditions (comment req.), Temporary - atmosphere (comment req.), Temporary - mechanical (comment req.), Pre-abandoned (comment req.), Site On Land (comment req.), Vessel safety (comment req.), No Access Allowed (comment req.), Prolonged rough seas, Bottom salinity <25psu, Too Shallow (comment req.), Too many Event Failures (comment req.), Anthropogenic obstruction (comment req.), Natural hard bottom obstructions (comment req.), Not sampleable - other (comment req.)
- Grab Fail codes: None, Outside Radius Limit, Outside Target Depth, Premature closure, Flipped, Rocks/gravel, Dead shell, Live animal (comment req.), Debris (comment req.), Poor closure - other (comment req.), Heavily Canted, Large Humping, Washed, Disturbed Surface, < 5 cm Penetration, <= 7 cm Penetration - biology only

FIELD SAMPLING QA CHECKLIST

Station Location: B13-#302 Arrival Date/Time: 08/11

Site Acceptable for Sampling: Y or N If No, reason: _____

Mark each box with Y, N, or NA

Field Procedures

1. Upon arriving at the sampling location, the following site observations are recorded:

| | |
|--|---|
| Is site accessible? | Y |
| Depth and benthic salinity recorded. Within limits? (>3m embayments; ≥25pt salinity) | Y |
| Vessel has been anchored (or tied off) | N |
| Station DGPS coordinates (± 3 m) recorded | Y |
| Station occupation form completed | Y |

float

2. Sampling procedures:

| | |
|---|---|
| Field staff wearing fresh, powder free nitrile gloves | Y |
| Equipment washed/rinsed from previous station | Y |
| Vessel engine has been shut off for 5 minutes prior to sampling | Y |
| Sampling instrument washed with Alconox | Y |
| Sampling instrument given site water rinse prior to deployment | Y |
| Sample bottles correctly labeled (minimum: station id, date, agency, parameter) | Y |
| Sample bottles are lab certified, contaminant free | Y |
| Samples containers are the correct type in accordance with Table 5-2 in the Bight' 13 QAM | Y |
| Sample condition meets acceptability criteria (e.g. no surface disturbance, leakage, canting, or washing) | Y |
| Sample penetration meets acceptability criteria (e.g. minimum 5cm for chem/tox; 7cm for infauna) | Y |
| Record grab disposition / characteristic information | Y |
| Samples collected in the following order: infaunal, chemistry, toxicity | Y |
| Chem/Tox samples collected from top 5cm, and 1cm from sides of grab | Y |
| Sediment evenly distributed among containers | Y |
| Stainless steel scoop used to distribute sediment | Y |
| Staff avoided contaminating samples at all times | Y |
| COC seals have been placed over individual sample bottles | Y |
| Site replicate (i.e., duplicate) collected (if applicable) | 1 |

FIELD SAMPLING QA CHECKLIST

3. Data Recording:

| | |
|---|---|
| Photo of sample grab(s) taken | Y |
| Samples properly logged on COC form | |
| Proper persons have signed the COC | |
| Field notes have been recorded for site before moving to the next | Y |

4. Sample Storage:

| | |
|---|---|
| Toxicity samples properly stored on wet ice | Y |
| Chemistry samples properly stored on dry ice | Y |
| Infaunal samples properly relaxed and preserved with formalin | Y |
| Cooler is taped shut for transport to lab | |
| Completed COC is included in plastic bag in cooler | |

5. PPE properly removed and disposed of upon station completion Y

Additional Notes:

Signature of QA/QC Personnel: 

Date/Time: 7/11/13 10U

Print Name/Company: John Rudolph AMEC

STATION OCCUPATION

BIGHT'13

Agency Code FOIA/FOUR

Weather

Clear
 Overcast
 Partly cloudy
 Drizzle

Rain
 Thunderstorm
 Fog

Sea State

Calm
 Choppy
 Rough

Salinity (ppt)

At estuary Sites only

Station ID

013-8302

Date

7/11/13

Vessel Name

Echo Bird

Arrival Time

0855

(hh:mm)

Abandoned site?

Station Fail Code

Y or N (If Y explain in comments)

Wind

MJ
 Speed (kts)

1.5

Direction (4)

SE

Swell

Period (s)

0

Height (ft)

0

Direction (4)

0

Nav Type

DGPS

GPS

Station Comments

poor closure - grab did not fire grab 1,2

Equipment Type

Van Veen

Tandem Van Veen

GRAB EVENTS

Sample types (Chk all that apply)

| # | Time (hh:mm) | Latitude (DD°MM.mmm) | Longitude (DD°MM.mmm) | Depth (m) | Distance to target (m) | Grab Fail Code (6) | Penetration (cm) | Composition (1) | Odor (2) | Color (3) | Shell Hash (Y/N) | Infauna | Sed Chem | Grain Size | Sed Tox | Debris (Y/N) | Photos |
|---|----------------------|----------------------|-----------------------|-----------|------------------------|----------------------|------------------|-----------------|----------|-----------|------------------|---------|----------|------------|---------|--------------|-----------|
| | 0909 | 33.71219 | -118.25779 | 18.2 | 28 | P ^{oo} Clay | | | | | | | | | | | |
| | Grab Event Comments: | | | | | | | | | | | | | | | | |
| | 0917 | 33.71246 | -118.25808 | 24.6 | 51 | " | | | | | | | | | | | |
| | Grab Event Comments: | | | | | | | | | | | | | | | | |
| | 0929 | 33.71242 | -118.25790 | 25.0 | 48 | none | 16 | Silt | None | Olive | N | X | X | X | | N | 080A-0810 |
| | Grab Event Comments: | | | | | | | | | | | | | | | | |
| | 0955 | 33.71255 | -118.25823 | 25.1 | 65 | none | 16 | Silt | None | Olive | N | | | | X | N | 0811-0812 |
| | Grab Event Comments: | | | | | | | | | | | | | | | | |
| | Grab Event Comments: | | | | | | | | | | | | | | | | |
| | Grab Event Comments: | | | | | | | | | | | | | | | | |

- Sediment Composition: Coarse sand, Fine sand, Silt/clay, Gravel, Cobble, Mixed
- Sediment Odor: None (N), Petroleum (P), Hydrogen sulfide (HS), Humic (HU), Other (O, describe in comments)
- Sediment Color: Brown, Gray, Black, Olive green, Red
- Directions: N, NE, E, SE, S, SW, W, NW, or XX for calm
- Station Fail codes: None, Temporary - sea conditions (comment req.), Temporary - atmosphere (comment req.), Temporary - mechanical (comment req.), Pre-abandoned (comment req.), Site On Land (comment req.), Vessel safety (comment req.), No Access Allowed (comment req.), Prolonged rough seas, Bottom salinity <25psu, Too Shallow (comment req.), Too many Event Failures (comment req.), Anthropogenic obstruction (comment req.), Natural hard bottom obstructions (comment req.), Not sampleable - other (comment req.)

Grab Fail codes: None, Outside Radius Limit, Outside Target Depth, Premature closure, Flipped, Rocks/gravel, Dead shell, Live animal (comment req.), Debris (comment req.), Poor closure - other (comment req.), Heavily Canted, Large Humping, Washed, Disturbed Surface, < 5 cm Penetration, <= 7 cm Penetration - biology only

FIELD SAMPLING QA CHECKLIST

Station Location: B13-8305

Arrival Date/Time: 7/11/13 0804

Site Acceptable for Sampling: (Y) or N If No, reason: _____

Mark each box with Y, N, or NA

Site abandoned after 9 attempts

Field Procedures

1. Upon arriving at the sampling location, the following site observations are recorded:

| | |
|--|---|
| Is site accessible? | Y |
| Depth and benthic salinity recorded. Within limits? (>3m embayments; ≥25pt salinity) | Y |
| Vessel has been anchored (or tied off) | N |
| Station DGPS coordinates (± 3 m) recorded | Y |
| Station occupation form completed | Y |

float

2. Sampling procedures:

| | |
|---|---|
| Field staff wearing fresh, powder free nitrile gloves | Y |
| Equipment washed/rinsed from previous station | Y |
| Vessel engine has been shut off for 5 minutes prior to sampling | |
| Sampling instrument washed with Alconox | Y |
| Sampling instrument given site water rinse prior to deployment | Y |
| Sample bottles correctly labeled (minimum: station id, date, agency, parameter) | Y |
| Sample bottles are lab certified, contaminant free | Y |
| Samples containers are the correct type in accordance with Table 5-2 in the Bight'13 QAM | Y |
| Sample condition meets acceptability criteria (e.g. no surface disturbance, leakage, canting, or washing) | |
| Sample penetration meets acceptability criteria (e.g. minimum 5cm for chem/tox; 7cm for infauna) | |
| Record grab disposition / characteristic information | |
| Samples collected in the following order: infaunal, chemistry, toxicity | |
| Chem/Tox samples collected from top 5cm, and 1cm from sides of grab | |
| Sediment evenly distributed among containers | |
| Stainless steel scoop used to distribute sediment | |
| Staff avoided contaminating samples at all times | |
| COC seals have been placed over individual sample bottles | |
| Site replicate (i.e., duplicate) collected (if applicable) | |

FIELD SAMPLING QA CHECKLIST

3. Data Recording:

| | |
|---|--|
| Photo of sample grab(s) taken | |
| Samples properly logged on COC form | |
| Proper persons have signed the COC | |
| Field notes have been recorded for site before moving to the next | |

4. Sample Storage:

| | |
|---|--|
| Toxicity samples properly stored on wet ice | |
| Chemistry samples properly stored on dry ice | |
| Infaunal samples properly relaxed and preserved with formalin | |
| Cooler is taped shut for transport to lab | |
| Completed COC is included in plastic bag in cooler | |

5. PPE properly removed and disposed of upon station completion _____

Additional Notes:

Signature of QA/QC Personnel: _____ **Date/Time:** _____

Print Name/Company: _____

STATION OCCUPATION

BIGHT'13

Agency Code POLA/POLB

Weather

Sea State

Salinity (ppt)

Station ID R13-8309

Vessel Name Early Bird

Clear

Rain

Calm

At estuary Sites only

Date 7/11/13

Overcast

Thunderstorm

Choppy

Partly cloudy

Fog

Rough

Arrival Time 0804
(hh:mm)

Drizzle

Abandoned site?

Station Fail Code

Y or N (if Y explain in comments)

Wind MS
Speed (kts) 1.5
Direction (4) SE

Swell

Period (s) 0

Height (ft) 0

Direction (4) 0

Nav Type

DGPS

GPS

Station Comments

Equipment Type

Van Veen

Tandem Van Veen

Grab 1 - hard packed clay failed grab
2
3
4

Abandoned Site

GRAB EVENTS

Sample types (Chk all that apply)

| # | Time (hh:mm) | Latitude (DD°MM.mmmm) | Longitude (DD°MM.mmmm) | Depth (m) | Distance to target (m) | Grab Fail Code (6) | Penetration (cm) | Composition (1) | Odor (2) | Color (3) | Shell Hash (Y/N) | Infauna | Sed Chem | Grain Size | Sed Tox | Debris (Y/N) | Photos |
|----------------------|--------------|-----------------------|------------------------|-----------|------------------------|--------------------|------------------|-----------------|----------|-----------|------------------|---------|----------|------------|---------|--------------|--------|
| | 0821 | 33.71737 | -118.26788 | 18.2 | 22 | Other | | | | | | | | | | | |
| Grab Event Comments: | | | | | | | | | | | | | | | | | |
| | 0836 | 33.71687 | -118.26826 | 18.0 | 44 | Other | | | | | | | | | | | |
| Grab Event Comments: | | | | | | | | | | | | | | | | | |
| | 0844 | 33.71694 | -118.26823 | 17.5 | 36 | Other | | | | | | | | | | | |
| Grab Event Comments: | | | | | | | | | | | | | | | | | |
| | 0850 | 33.71738 | -118.26844 | 17.8 | 45 | Other | | | | | | | | | | | |
| Grab Event Comments: | | | | | | | | | | | | | | | | | |
| Grab Event Comments: | | | | | | | | | | | | | | | | | |
| Grab Event Comments: | | | | | | | | | | | | | | | | | |

- Sediment Composition: Coarse sand, Fine sand, Silt/clay, Gravel, Cobble, Mixed
- Sediment Odor: None (N), Petroleum (P), Hydrogen sulfide (HS), Humic (HU), Other (O, describe in comments)
- Sediment Color: Brown, Gray, Black, Olive green, Red
- Directions: N, NE, E, SE, S, SW, W, NW, or XX for calm
- Station Fail codes: None, Temporary - sea conditions (comment req.), Temporary - atmosphere (comment req.), Temporary - mechanical (comment req.), Pre-abandoned (comment req.), Site On Land (comment req.), Vessel safety (comment req.), No Access Allowed (comment req.), Prolonged rough seas, Bottom salinity <25psu, Too Shallow (comment req.), Too many Event Failures (comment req.), Anthropogenic obstruction (comment req.), Natural hard bottom obstructions (comment req.), Not sampleable - other (comment req.)

Grab Fail codes: None, Outside Radius Limit, Outside Target Depth, Premature closure, Flipped, Rocks/gravel, Dead shell, Live animal (comment req.), Debris (comment req.), Poor closure - other (comment req.), Heavily Canted, Large Humping, Washed, Disturbed Surface, < 5 cm Penetration, <= 7 cm Penetration - biology only

BIGHT'13 SAMPLE TRACKING FORM

AGENCY: POLA/POLB

Page 1 of 1

DATE: 7/10/13

COMPLETED BY: JR

GS Chem Arch Tox Trash

| Station | Sample Time | # of 4.5 oz Jars | # of 8 oz Jars | # of 16 oz Jars | # of 1 L Jars | # of 1 Gal Ziplocs |
|----------|-----------------------------------|------------------|----------------|-----------------|---------------|--------------------|
| B13-8326 | 0828 | 1 | ✓ | 1 | ✓ | 0 |
| B13-8349 | 0951 | 1 | ✓ | 1 | ✓ | 0 |
| B13-8382 | 1104 | 1 | ✓ | 1 | ✓ | 0 |
| B13-8371 | 1203 | 1 | ✓ | 1 | ✓ | 0 |
| B13-8363 | 1338 | 1 | ✓ | 1 | ✓ | 0 |
| B13-8374 | 1428 | 1 | ✓ | 1 | ✓ | 0 |
| B13-8360 | 1530 ⁽¹⁵³⁰⁾ | 1 | ✓ | 1 | ✓ | 0 |
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All sample times for Chem only

FIELD SAMPLING QA CHECKLIST

Station Location: B13-8360

Arrival Date/Time: 7/10/13 1530

Site Acceptable for Sampling: (Y) or N If No, reason: _____

Mark each box with Y, N, or NA

Field Procedures

1. Upon arriving at the sampling location, the following site observations are recorded:

| | |
|--|---|
| Is site accessible? | Y |
| Depth and benthic salinity recorded. Within limits? (>3m embayments; ≥25pt salinity) | Y |
| Vessel has been anchored (or tied off) | N |
| Station DGPS coordinates (± 3 m) recorded | Y |
| Station occupation form completed | Y |

float

2. Sampling procedures:

| | |
|---|---|
| Field staff wearing fresh, powder free nitrile gloves | Y |
| Equipment washed/rinsed from previous station | Y |
| Vessel engine has been shut off for 5 minutes prior to sampling | Y |
| Sampling instrument washed with Alconox | Y |
| Sampling instrument given site water rinse prior to deployment | Y |
| Sample bottles correctly labeled (minimum: station id, date, agency, parameter) | Y |
| Sample bottles are lab certified, contaminant free | Y |
| Samples containers are the correct type in accordance with Table 5-2 in the Bight' 13 QAM | Y |
| Sample condition meets acceptability criteria (e.g. no surface disturbance, leakage, canting, or washing) | Y |
| Sample penetration meets acceptability criteria (e.g. minimum 5cm for chem/tox; 7cm for infauna) | Y |
| Record grab disposition / characteristic information | Y |
| Samples collected in the following order: infaunal, chemistry, toxicity | Y |
| Chem/Tox samples collected from top 5cm, and 1cm from sides of grab | Y |
| Sediment evenly distributed among containers | Y |
| Stainless steel scoop used to distribute sediment | Y |
| Staff avoided contaminating samples at all times | Y |
| COC seals have been placed over individual sample bottles | |
| Site replicate (i.e., duplicate) collected (if applicable) | - |

FIELD SAMPLING QA CHECKLIST

3. Data Recording:

| | |
|---|---|
| Photo of sample grab(s) taken | ✓ |
| Samples properly logged on COC form | |
| Proper persons have signed the COC | |
| Field notes have been recorded for site before moving to the next | ✓ |

4. Sample Storage:

| | |
|---|---|
| Toxicity samples properly stored on wet ice | ✓ |
| Chemistry samples properly stored on dry ice | ✓ |
| Infaunal samples properly relaxed and preserved with formalin | ✓ |
| Cooler is taped shut for transport to lab | |
| Completed COC is included in plastic bag in cooler | |

5. PPE properly removed and disposed of upon station completion _____

Additional Notes:

Signature of QA/QC Personnel: _____ Date/Time: _____

Print Name/Company: _____

STATION OCCUPATION

BIGHT'13

Agency Code POLA/POLA

Weather

Clear
 Overcast
 Partly cloudy
 Drizzle

Rain
 Thunderstorm
 Fog

Sea State

Calm
 Choppy
 Rough

Salinity (ppt)

At estuary Sites only

Station ID B13-8360

Date 7/10/13

Vessel Name Early Bird

Arrival Time 1530
 (hh:mm)

Abandoned site?

Y or N (If Y explain in comments)

Station Fail Code

Wind

Speed (kts) 0
 Direction (4) -

Swell

Period (s) 0
 Height (ft) 0
 Direction (4) 0

Nav Type

DGPS
 GPS

Station Comments

Equipment Type

Van Veen
 Tandem Van Veen

GRAB EVENTS

Sample types (Chk all that apply)

| # | Time (hh:mm) | Latitude (DD°MM.mmm) | Longitude (DD°MM.mmm) | Depth (m) | Distance to target (m) | Grab Fail Code (6) | Penetration (cm) | Composition (1) | Odor (2) | Color (3) | Shell Hash (Y/N) | Infauuna | Sed Chem | Grain Size | Sed Tox | Debris (Y/N) | Photos |
|---|----------------------|----------------------|-----------------------|-----------|------------------------|--------------------|------------------|-----------------|----------|-----------|------------------|----------|----------|------------|---------|--------------|-----------|
| | 1530 | 33.74553 | -118.21570 | 20.2 | 29 | None | 15 | Silt | N | Olive | N | X | X | X | | N | 0801-0802 |
| | Grab Event Comments: | | | | | | | | | | | | | | | | |
| | 1559 | 33.74564 | -118.21571 | 20.4 | 27 | None | 15 | Silt | N | Olive | N | | | | X | N | |
| | Grab Event Comments: | | | | | | | | | | | | | | | | |
| | Grab Event Comments: | | | | | | | | | | | | | | | | |
| | Grab Event Comments: | | | | | | | | | | | | | | | | |
| | Grab Event Comments: | | | | | | | | | | | | | | | | |

- Sediment Composition: Coarse sand, Fine sand, Silt/clay, Gravel, Cobble, Mixed
- Sediment Odor: None (N), Petroleum (P), Hydrogen sulfide (HS), Humic (HU), Other (O, describe in comments)
- Sediment Color: Brown, Gray, Black, Olive green, Red
- Directions: N, NE, E, SE, S, SW, W, NW, or XX for calm
- Station Fail codes: None, Temporary - sea conditions (comment req.), Temporary - atmosphere (comment req.), Temporary - mechanical (comment req.), Pre-abandoned (comment req.), Site On Land (comment req.), Vessel safety (comment req.), No Access Allowed (comment req.), Prolonged rough seas, Bottom salinity <25psu, Too Shallow (comment req.), Too many Event Failures (comment req.), Anthropogenic obstruction (comment req.), Natural hard bottom obstructions (comment req.), Not sampleable - other (comment req.)

Grab Fail codes: None, Outside Radius Limit, Outside Target Depth, Premature closure, Flipped, Rocks/gravel, Dead shell, Live animal (comment req.), Debris (comment req.), Poor closure - other (comment req.), Heavily Canted, Large Humping, Washed, Disturbed Surface, < 5 cm Penetration, <= 7 cm Penetration - biology only

FIELD SAMPLING QA CHECKLIST

Station Location: B13-8374

Arrival Date/Time: 7/10/13 1428

Site Acceptable for Sampling: (Y) or N If No, reason: _____

Mark each box with Y, N, or NA

Field Procedures

1. Upon arriving at the sampling location, the following site observations are recorded:

| | |
|--|---|
| Is site accessible? | Y |
| Depth and benthic salinity recorded. Within limits? (>3m embayments; ≥25pt salinity) | Y |
| Vessel has been anchored (or tied off) | N |
| Station DGPS coordinates (± 3 m) recorded | Y |
| Station occupation form completed | Y |

float

2. Sampling procedures:

| | |
|---|---|
| Field staff wearing fresh, powder free nitrile gloves | Y |
| Equipment washed/rinsed from previous station | Y |
| Vessel engine has been shut off for 5 minutes prior to sampling | Y |
| Sampling instrument washed with Alconox | Y |
| Sampling instrument given site water rinse prior to deployment | Y |
| Sample bottles correctly labeled (minimum: station id, date, agency, parameter) | Y |
| Sample bottles are lab certified, contaminant free | Y |
| Samples containers are the correct type in accordance with Table 5-2 in the Bight'13 QAM | Y |
| Sample condition meets acceptability criteria (e.g. no surface disturbance, leakage, canting, or washing) | Y |
| Sample penetration meets acceptability criteria (e.g. minimum 5cm for chem/tox; 7cm for infauna) | Y |
| Record grab disposition / characteristic information | Y |
| Samples collected in the following order: infaunal, chemistry, toxicity | Y |
| Chem/Tox samples collected from top 5cm, and 1cm from sides of grab | Y |
| Sediment evenly distributed among containers | Y |
| Stainless steel scoop used to distribute sediment | Y |
| Staff avoided contaminating samples at all times | Y |
| COC seals have been placed over individual sample bottles | |
| Site replicate (i.e., duplicate) collected (if applicable) | - |

FIELD SAMPLING QA CHECKLIST

3. Data Recording:

| | |
|---|---|
| Photo of sample grab(s) taken | Y |
| Samples properly logged on COC form | |
| Proper persons have signed the COC | |
| Field notes have been recorded for site before moving to the next | Y |

4. Sample Storage:

| | |
|---|---|
| Toxicity samples properly stored on wet ice | Y |
| Chemistry samples properly stored on dry ice | Y |
| Infaunal samples properly relaxed and preserved with formalin | Y |
| Cooler is taped shut for transport to lab | |
| Completed COC is included in plastic bag in cooler | |

5. PPE properly removed and disposed of upon station completion Y

Additional Notes:

Signature of QA/QC Personnel:

[Handwritten Signature]

Date/Time:

7/10/13 1509

Print Name/Company:

John Rudolph AMEC

STATION OCCUPATION

BIGHT'13

Agency Code POLA/POLO

Weather

Clear
 Overcast
 Partly cloudy
 Drizzle

Rain
 Thunderstorm
 Fog

Sea State

Calm
 Choppy
 Rough

Salinity (ppt)

At estuary Sites only

Station ID B13-8374

Date 7/10/13

Vessel Name Early Bird

Arrival Time 1428
 (hh:mm)

Abandoned site?
 Y or N (if Y explain in comments)

Station Fail Code

Wind

Speed (kts) 0
 Direction (4) -

Swell

Period (s) 0
 Height (ft) 0
 Direction (4) 0

Nav Type

DGPS
 GPS

Station Comments

Equipment Type

Van Veen
 Tandem Van Veen

GRAB EVENTS

Sample types (Chk all that apply)

| # | Time (hh:mm) | Latitude (DD°MM.mmm) | Longitude (DD°MM.mmm) | Depth (m) | Distance to target (m) | Grab Fail Code (6) | Penetration (cm) | Composition (1) | Odor (2) | Color (3) | Shell Hash (Y/N) | Infauna | Sed Chem | Grain Size | Sed Tox | Debris (Y/N) | Photos |
|---|----------------------|----------------------|-----------------------|-------------|------------------------|--------------------|------------------|-----------------|----------|--------------|------------------|----------|----------|------------|----------|--------------|-----------------------------|
| | <u>1428</u> | <u>33.75269</u> | <u>-118.21776</u> | <u>18.2</u> | <u>22</u> | <u>None</u> | <u>16</u> | <u>Silt</u> | <u>N</u> | <u>Olive</u> | <u>N</u> | <u>X</u> | <u>X</u> | <u>X</u> | | <u>N</u> | <u>07954</u> <u>0797</u> |
| | Grab Event Comments: | | | | | | | | | | | | | | | | |
| | <u>1453</u> | <u>33.75266</u> | <u>-118.21775</u> | <u>24.1</u> | <u>23</u> | <u>None</u> | <u>16</u> | <u>Silt</u> | <u>N</u> | <u>Olive</u> | <u>N</u> | | | | <u>X</u> | <u>N</u> | <u>0799-</u> <u>0800</u> |
| | Grab Event Comments: | | | | | | | | | | | | | | | | |
| | Grab Event Comments: | | | | | | | | | | | | | | | | |
| | Grab Event Comments: | | | | | | | | | | | | | | | | |
| | Grab Event Comments: | | | | | | | | | | | | | | | | |

- Sediment Composition: Coarse sand, Fine sand, Silt/clay, Gravel, Cobble, Mixed
- Sediment Odor: None (N), Petroleum (P), Hydrogen sulfide (HS), Humic (HU), Other (O, describe in comments)
- Sediment Color: Brown, Gray, Black, Olive green, Red
- Directions: N, NE, E, SE, S, SW, W, NW, or XX for calm
- Station Fail codes: None, Temporary - sea conditions (comment req.), Temporary - atmosphere (comment req.), Temporary - mechanical (comment req.), Pre-abandoned (comment req.), Site On Land (comment req.), Vessel safety (comment req.), No Access Allowed (comment req.), Prolonged rough seas, Bottom salinity <25psu, Too Shallow (comment req.), Too many Event Failures (comment req.), Anthropogenic obstruction (comment req.), Natural hard bottom obstructions (comment req.), Not sampleable - other (comment req.)

Grab Fail codes: None, Outside Radius Limit, Outside Target Depth, Premature closure, Flipped, Rocks/gravel, Dead shell, Live animal (comment req.), Debris (comment req.), Poor closure - other (comment req.), Heavily Canted, Large Humping, Washed, Disturbed Surface, < 5 cm Penetration, <= 7 cm Penetration - biology only

FIELD SAMPLING QA CHECKLIST

Station Location: B13-8363 Arrival Date/Time: 7/10/13 1329

Site Acceptable for Sampling: Y or N If No, reason: _____

Mark each box with Y, N, or NA

Field Procedures

1. Upon arriving at the sampling location, the following site observations are recorded:

| | |
|--|---|
| Is site accessible? | Y |
| Depth and benthic salinity recorded. Within limits? (>3m embayments; ≥25pt salinity) | Y |
| Vessel has been anchored (or tied off) | |
| Station DGPS coordinates (± 3 m) recorded | Y |
| Station occupation form completed | Y |

2. Sampling procedures:

| | |
|---|---|
| Field staff wearing fresh, powder free nitrile gloves | Y |
| Equipment washed/rinsed from previous station | Y |
| Vessel engine has been shut off for 5 minutes prior to sampling | Y |
| Sampling instrument washed with Alconox | Y |
| Sampling instrument given site water rinse prior to deployment | Y |
| Sample bottles correctly labeled (minimum: station id, date, agency, parameter) | Y |
| Sample bottles are lab certified, contaminant free | Y |
| Samples containers are the correct type in accordance with Table 5-2 in the Bight' 13 QAM | Y |
| Sample condition meets acceptability criteria (e.g. no surface disturbance, leakage, canting, or washing) | Y |
| Sample penetration meets acceptability criteria (e.g. minimum 5cm for chem/tox; 7cm for infauna) | Y |
| Record grab disposition / characteristic information | Y |
| Samples collected in the following order: infaunal, chemistry, toxicity | Y |
| Chem/Tox samples collected from top 5cm, and 1cm from sides of grab | Y |
| Sediment evenly distributed among containers | Y |
| Stainless steel scoop used to distribute sediment | Y |
| Staff avoided contaminating samples at all times | Y |
| COC seals have been placed over individual sample bottles | |
| Site replicate (i.e., duplicate) collected (if applicable) | — |

FIELD SAMPLING QA CHECKLIST

3. Data Recording:

| | |
|---|---|
| Photo of sample grab(s) taken | ✓ |
| Samples properly logged on COC form | |
| Proper persons have signed the COC | |
| Field notes have been recorded for site before moving to the next | ✓ |

4. Sample Storage:

| | |
|---|---|
| Toxicity samples properly stored on wet ice | ✓ |
| Chemistry samples properly stored on dry ice | ✓ |
| Infaunal samples properly relaxed and preserved with formalin | ✓ |
| Cooler is taped shut for transport to lab | |
| Completed COC is included in plastic bag in cooler | |

5. PPE properly removed and disposed of upon station completion _____

Additional Notes:

Signature of QA/QC Personnel: _____ Date/Time: _____

Print Name/Company: _____

STATION OCCUPATION

BIGHT'13

Agency Code POA/POB

Weather
 Clear Rain
 Overcast Thunderstorm
 Partly cloudy Fog
 Drizzle

Sea State
 Calm
 Choppy
 Rough

Salinity (ppt)

 At estuary Sites only

Station ID 013-8763

Vessel Name Early Bird

Date 7/10/13

Arrival Time 1329
 (hh:mm)

Abandoned site?
 Y or N (If Y explain in comments)
 Station Fail Code

Wind
 Speed (kts) 0
 Direction (4) -

Swell
 Period (s) 0
 Height (ft) 0
 Direction (4) 0

Nav Type
 DGPS
 GPS

Station Comments

Equipment Type
 Van Veen
 Tandem Van Veen

GRAB EVENTS

Sample types (Chk all that apply)

| # | Time (hh:mm) | Latitude (DD°MM.mmm) | Longitude (DD°MM.mmm) | Depth (m) | Distance to target (m) | Grab Fail Code (6) | Penetration (cm) | Composition (1) | Odor (2) | Color (3) | Shell Hash (Y/N) | Infauuna | Sed Chem | Grain Size | Sed Tox | Debris (Y/N) | Photos |
|----------------------|--------------|----------------------|-----------------------|-------------|------------------------|--------------------|------------------|-----------------|----------|------------|------------------|----------|----------|------------|----------|--------------|------------------|
| | <u>1338</u> | <u>33.74719</u> | <u>-118.22137</u> | <u>15.2</u> | <u>36</u> | <u>None</u> | <u>16</u> | <u>Silt</u> | <u>N</u> | <u>BRN</u> | <u>N</u> | <u>X</u> | <u>X</u> | <u>X</u> | | <u>N</u> | <u>0791-0792</u> |
| Grab Event Comments: | | | | | | | | | | | | | | | | | |
| | <u>1400</u> | <u>33.74747</u> | <u>-118.22159</u> | <u>15.2</u> | <u>57</u> | <u>None</u> | <u>16</u> | <u>Silt</u> | <u>N</u> | <u>BRN</u> | <u>N</u> | | | | <u>X</u> | <u>N</u> | <u>0793-0794</u> |
| Grab Event Comments: | | | | | | | | | | | | | | | | | |
| Grab Event Comments: | | | | | | | | | | | | | | | | | |
| Grab Event Comments: | | | | | | | | | | | | | | | | | |
| Grab Event Comments: | | | | | | | | | | | | | | | | | |

- Sediment Composition: Coarse sand, Fine sand, Silt/clay, Gravel, Cobble, Mixed
- Sediment Odor: None (N), Petroleum (P), Hydrogen sulfide (HS), Humic (HU), Other (O, describe in comments)
- Sediment Color: Brown, Gray, Black, Olive green, Red
- Directions: N, NE, E, SE, S, SW, W, NW, or XX for calm
- Station Fail codes: None, Temporary - sea conditions (comment req.), Temporary - atmosphere (comment req.), Temporary - mechanical (comment req.), Pre-abandoned (comment req.), Site On Land (comment req.), Vessel safety (comment req.), No Access Allowed (comment req.), Prolonged rough seas, Bottom salinity <25psu, Too Shallow (comment req.), Too many Event Failures (comment req.), Anthropogenic obstruction (comment req.), Natural hard bottom obstructions (comment req.), Not sampleable - other (comment req.)

Grab Fail codes: None, Outside Radius Limit, Outside Target Depth, Premature closure, Flipped, Rocks/gravel, Dead shell, Live animal (comment req.), Debris (comment req.), Poor closure - other (comment req.), Heavily Canted, Large Humping, Washed, Disturbed Surface, < 5 cm Penetration, <= 7 cm Penetration - biology only

FIELD SAMPLING QA CHECKLIST

Station Location: B13-5371

Arrival Date/Time: 7/10/13 1155

Site Acceptable for Sampling: (Y) or N If No, reason: _____

Mark each box with Y, N, or NA

Field Procedures

1. Upon arriving at the sampling location, the following site observations are recorded:

| | |
|--|---|
| Is site accessible? | Y |
| Depth and benthic salinity recorded. Within limits? (>3m embayments; ≥25pt salinity) | Y |
| Vessel has been anchored (or tied off) | Y |
| Station DGPS coordinates (± 3 m) recorded | Y |
| Station occupation form completed | Y |

2. Sampling procedures:

| | |
|---|---|
| Field staff wearing fresh, powder free nitrile gloves | Y |
| Equipment washed/rinsed from previous station | Y |
| Vessel engine has been shut off for 5 minutes prior to sampling | Y |
| Sampling instrument washed with Alconox | Y |
| Sampling instrument given site water rinse prior to deployment | Y |
| Sample bottles correctly labeled (minimum: station id, date, agency, parameter) | Y |
| Sample bottles are lab certified, contaminant free | Y |
| Samples containers are the correct type in accordance with Table 5-2 in the Bight' 13 QAM | Y |
| Sample condition meets acceptability criteria (e.g. no surface disturbance, leakage, canting, or washing) | Y |
| Sample penetration meets acceptability criteria (e.g. minimum 5cm for chem/tox; 7cm for infauna) | Y |
| Record grab disposition / characteristic information | Y |
| Samples collected in the following order: infaunal, chemistry, toxicity | Y |
| Chem/Tox samples collected from top 5cm, and 1cm from sides of grab | Y |
| Sediment evenly distributed among containers | Y |
| Stainless steel scoop used to distribute sediment | Y |
| Staff avoided contaminating samples at all times | Y |
| COC seals have been placed over individual sample bottles, | Y |
| Site replicate (i.e., duplicate) collected (if applicable) | - |

FIELD SAMPLING QA CHECKLIST

3. Data Recording:

| | |
|---|---|
| Photo of sample grab(s) taken | Y |
| Samples properly logged on COC form | |
| Proper persons have signed the COC | |
| Field notes have been recorded for site before moving to the next | Y |

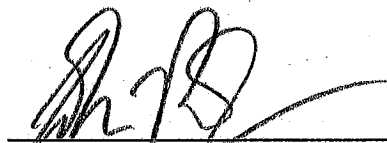
4. Sample Storage:

| | |
|---|---|
| Toxicity samples properly stored on wet ice | Y |
| Chemistry samples properly stored on dry ice | Y |
| Infaunal samples properly relaxed and preserved with formalin | Y |
| Cooler is taped shut for transport to lab | |
| Completed COC is included in plastic bag in cooler | |

5. PPE properly removed and disposed of upon station completion Y

Additional Notes:

Signature of QA/QC Personnel:



Date/Time:

7/10/13 1243

Print Name/Company:

John Rudolph AMEC

STATION OCCUPATION

BIGHT'13

Agency Code POLA/POA

Weather

Clear
 Overcast
 Partly cloudy
 Drizzle

Rain
 Thunderstorm
 Fog

Sea State

Calm
 Choppy
 Rough

Salinity (ppt)

At estuary Sites only

Station ID B13-8371

Date 7/10/13

Vessel Name Early Bird

Arrival Time 1155
 (hh:mm)

Abandoned site?
 Y or N (if Y explain in comments)

Station Fail Code

Wind

Speed (kts) 0
 Direction (4) -

Swell

Period (s) 0
 Height (ft) 0
 Direction (4) 0

Nav Type

DGPS
 GPS

Station Comments

Equipment Type

Van Veen
 Tandem Van Veen

GRAB EVENTS

Sample types (Chk all that apply)

| # | Time (hh:mm) | Latitude (DD°MM.mmm) | Longitude (DD°MM.mmm) | Depth (m) | Distance to target (m) | Grab Fail Code (6) | Penetration (cm) | Composition (1) | Odor (2) | Color (3) | Shell Hash (Y/N) | Infauna | Sed Chem | Grain Size | Sed Tox | Debris (Y/N) | Photos |
|---|----------------------|----------------------|-----------------------|-------------|------------------------|--------------------|------------------|-----------------|-------------|--------------|------------------|----------|----------|------------|----------|--------------|------------------|
| | <u>1203</u> | <u>33.75109</u> | <u>-118.23063</u> | <u>17.2</u> | <u>47</u> | <u>None</u> | <u>16</u> | <u>Silt</u> | <u>None</u> | <u>Olive</u> | <u>N</u> | <u>X</u> | <u>X</u> | <u>X</u> | | <u>N</u> | <u>0786-0788</u> |
| | Grab Event Comments: | | | | | | | | | | | | | | | | |
| | <u>1230</u> | <u>33.7508</u> | <u>-118.2305</u> | <u>17.0</u> | <u>47*</u> | <u>None</u> | <u>16</u> | <u>Silt</u> | <u>None</u> | <u>Olive</u> | <u>N</u> | | | | <u>X</u> | <u>N</u> | <u>0789-0790</u> |
| | Grab Event Comments: | | | | | | | | | | | | | | | | |
| | Grab Event Comments: | | | | | | | | | | | | | | | | |
| | Grab Event Comments: | | | | | | | | | | | | | | | | |
| | Grab Event Comments: | | | | | | | | | | | | | | | | |

- Sediment Composition: Coarse sand, Fine sand, Silt/clay, Gravel, Cobble, Mixed
- Sediment Odor: None (N), Petroleum (P), Hydrogen sulfide (HS), Humic (HU), Other (O, describe in comments)
- Sediment Color: Brown, Gray, Black, Olive green, Red
- Directions: N, NE, E, SE, S, SW, W, NW, or XX for calm
- Station Fail codes: None, Temporary - sea conditions (comment req.), Temporary - atmosphere (comment req.), Temporary - mechanical (comment req.), Pre-abandoned (comment req.), Site On Land (comment req.), Vessel safety (comment req.), No Access Allowed (comment req.), Prolonged rough seas, Bottom salinity <25psu, Too Shallow (comment req.), Too many Event Failures (comment req.), Anthropogenic obstruction (comment req.), Natural hard bottom obstructions (comment req.), Not sampleable - other (comment req.)

Grab Fail codes: None, Outside Radius Limit, Outside Target Depth, Premature closure, Flipped, Rocks/gravel, Dead shell, Live animal (comment req.), Debris (comment req.), Poor closure - other (comment req.), Heavily Canted, Large Humping, Washed, Disturbed Surface, < 5 cm Penetration, <= 7 cm Penetration - biology only

FIELD SAMPLING QA CHECKLIST

Station Location: B13-8342

Arrival Date/Time: 7/10/13 1059

Site Acceptable for Sampling: (Y) or N If No, reason: _____

Mark each box with Y, N, or NA

Field Procedures

1. Upon arriving at the sampling location, the following site observations are recorded:

| | |
|--|---|
| Is site accessible? | Y |
| Depth and benthic salinity recorded. Within limits? (>3m embayments; ≥25pt salinity) | Y |
| Vessel has been anchored (or tied off) | N |
| Station DGPS coordinates (± 3 m) recorded | Y |
| Station occupation form completed | Y |

float

2. Sampling procedures:

| | |
|---|---|
| Field staff wearing fresh, powder free nitrile gloves | Y |
| Equipment washed/rinsed from previous station | Y |
| Vessel engine has been shut off for 5 minutes prior to sampling | Y |
| Sampling instrument washed with Alconox | Y |
| Sampling instrument given site water rinse prior to deployment | Y |
| Sample bottles correctly labeled (minimum: station id, date, agency, parameter) | Y |
| Sample bottles are lab certified, contaminant free | Y |
| Samples containers are the correct type in accordance with Table 5-2 in the Bight' 13 QAM | Y |
| Sample condition meets acceptability criteria (e.g. no surface disturbance, leakage, canting, or washing) | Y |
| Sample penetration meets acceptability criteria (e.g. minimum 5cm for chem/tox; 7cm for infauna) | Y |
| Record grab disposition / characteristic information | Y |
| Samples collected in the following order: infaunal, chemistry, toxicity | Y |
| Chem/Tox samples collected from top 5cm, and 1cm from sides of grab | Y |
| Sediment evenly distributed among containers | Y |
| Stainless steel scoop used to distribute sediment | Y |
| Staff avoided contaminating samples at all times | Y |
| COC seals have been placed over individual sample bottles | Y |
| Site replicate (i.e., duplicate) collected (if applicable) | - |

FIELD SAMPLING QA CHECKLIST

3. Data Recording:

| | |
|---|---|
| Photo of sample grab(s) taken | Y |
| Samples properly logged on COC form | Y |
| Proper persons have signed the COC | |
| Field notes have been recorded for site before moving to the next | Y |

4. Sample Storage:

| | |
|---|---|
| Toxicity samples properly stored on wet ice | Y |
| Chemistry samples properly stored on dry ice | Y |
| Infaunal samples properly relaxed and preserved with formalin | Y |
| Cooler is taped shut for transport to lab | |
| Completed COC is included in plastic bag in cooler | |

5. PPE properly removed and disposed of upon station completion Y

Additional Notes:

Signature of QA/QC Personnel: _____ Date/Time: _____

Print Name/Company: _____

STATION OCCUPATION

BIGHT'13

Agency Code POLA/POLA

Weather
 Clear Rain
 Overcast Thunderstorm
 Partly cloudy Fog
 Drizzle

Sea State
 Calm
 Choppy
 Rough

Salinity (ppt)

 At estuary Sites only

Station ID 013-8382

Vessel Name Early Bird

Date 7/10/13

Arrival Time 1059
 (hh:mm)

Abandoned site?
 Y or N (if Y explain in comments) Station Fail Code

Wind
 Speed (kts) 0
 Direction (4) -

Swell
 Period (s) 0
 Height (ft) 0
 Direction (4) 0

Nav Type
 DGPS
 GPS

Station Comments

Equipment Type
 Van Veen
 Tandem Van Veen

GRAB EVENTS

Sample types (Chk all that apply)

| # | Time (hh:mm) | Latitude (DD°MM.mmm) | Longitude (DD°MM.mmm) | Depth (m) | Distance to target (m) | Grab Fail Code (6) | Penetration (cm) | Composition (1) | Odor (2) | Color (3) | Shell Hash (Y/N) | Infauna | Sed Chem | Grain Size | Sed Tox | Debris (Y/N) | Photos |
|----------------------|--------------|----------------------|-----------------------|-------------|------------------------|--------------------|------------------|-----------------|----------|--------------|------------------|----------|----------|------------|----------|--------------|------------------|
| | <u>1104</u> | <u>33.453073</u> | <u>118.13.8866</u> | <u>18.1</u> | <u>6</u> | <u>None</u> | <u>16</u> | <u>Silt</u> | <u>N</u> | <u>Olive</u> | <u>N</u> | <u>X</u> | <u>X</u> | <u>X</u> | | <u>N</u> | <u>0780-0783</u> |
| Grab Event Comments: | | | | | | | | | | | | | | | | | |
| | <u>1131</u> | <u>33.77511</u> | <u>118.23012</u> | <u>18.3</u> | <u>24</u> | <u>None</u> | <u>15</u> | <u>Silt</u> | <u>N</u> | <u>Olive</u> | <u>N</u> | | | | <u>X</u> | <u>N</u> | <u>0784-0785</u> |
| Grab Event Comments: | | | | | | | | | | | | | | | | | |
| Grab Event Comments: | | | | | | | | | | | | | | | | | |
| Grab Event Comments: | | | | | | | | | | | | | | | | | |
| Grab Event Comments: | | | | | | | | | | | | | | | | | |

- Sediment Composition: Coarse sand, Fine sand, Silt/clay, Gravel, Cobble, Mixed
- Sediment Odor: None (N), Petroleum (P), Hydrogen sulfide (HS), Humic (HU), Other (O, describe in comments)
- Sediment Color: Brown, Gray, Black, Olive green, Red
- Directions: N, NE, E, SE, S, SW, W, NW, or XX for calm
- Station Fail codes: None, Temporary - sea conditions (comment req.), Temporary - atmosphere (comment req.), Temporary - mechanical (comment req.), Pre-abandoned (comment req.), Site On Land (comment req.), Vessel safety (comment req.), No Access Allowed (comment req.), Prolonged rough seas, Bottom salinity <25psu, Too Shallow (comment req.), Too many Event Failures (comment req.), Anthropogenic obstruction (comment req.), Natural hard bottom obstructions (comment req.), Not sampleable - other (comment req.)

Grab Fail codes: None, Outside Radius Limit, Outside Target Depth, Premature closure, Flipped, Rocks/gravel, Dead shell, Live animal (comment req.), Debris (comment req.), Poor closure - other (comment req.), Heavily Canted, Large Humping, Washed, Disturbed Surface, < 5 cm Penetration, <= 7 cm Penetration - biology only

FIELD SAMPLING QA CHECKLIST

Station Location: B13-8349

Arrival Date/Time: 7/10/13 0920

Site Acceptable for Sampling: (Y) or N If No, reason: _____

Mark each box with Y, N, or NA

Field Procedures

1. Upon arriving at the sampling location, the following site observations are recorded:

| | |
|--|---|
| Is site accessible? | Y |
| Depth and benthic salinity recorded. Within limits? (>3m embayments; ≥25pt salinity) | Y |
| Vessel has been anchored (or tied off) | Y |
| Station DGPS coordinates (± 3 m) recorded | Y |
| Station occupation form completed | Y |

2. Sampling procedures:

| | |
|---|---|
| Field staff wearing fresh, powder free nitrile gloves | |
| Equipment washed/rinsed from previous station | Y |
| Vessel engine has been shut off for 5 minutes prior to sampling | Y |
| Sampling instrument washed with Alconox | — |
| Sampling instrument given site water rinse prior to deployment | Y |
| Sample bottles correctly labeled (minimum: station id, date, agency, parameter) | Y |
| Sample bottles are lab certified, contaminant free | Y |
| Samples containers are the correct type in accordance with Table 5-2 in the Bight' 13 QAM | Y |
| Sample condition meets acceptability criteria (e.g. no surface disturbance, leakage, canting, or washing) | Y |
| Sample penetration meets acceptability criteria (e.g. minimum 5cm for chem/tox; 7cm for infauna) | Y |
| Record grab disposition / characteristic information | Y |
| Samples collected in the following order: infaunal, chemistry, toxicity | Y |
| Chem/Tox samples collected from top 5cm, and 1cm from sides of grab | Y |
| Sediment evenly distributed among containers | Y |
| Stainless steel scoop used to distribute sediment | Y |
| Staff avoided contaminating samples at all times | Y |
| COC seals have been placed over individual sample bottles | Y |
| Site replicate (i.e., duplicate) collected (if applicable) | — |

FIELD SAMPLING QA CHECKLIST

3. Data Recording:

| | |
|---|---|
| Photo of sample grab(s) taken | Y |
| Samples properly logged on COC form | Y |
| Proper persons have signed the COC | |
| Field notes have been recorded for site before moving to the next | Y |

4. Sample Storage:

| | |
|---|---|
| Toxicity samples properly stored on wet ice | Y |
| Chemistry samples properly stored on dry ice | Y |
| Infaunal samples properly relaxed and preserved with formalin | Y |
| Cooler is taped shut for transport to lab | |
| Completed COC is included in plastic bag in cooler | |

5. PPE properly removed and disposed of upon station completion Y

Additional Notes:

Signature of QA/QC Personnel: 

Date/Time: 7/10/13 1030

Print Name/Company: John Rudolph AMEC

STATION OCCUPATION

BIGHT'13

Agency Code FOA/POB

Weather

Clear
 Overcast
 Partly cloudy
 Drizzle

Rain
 Thunderstorm
 Fog

Sea State

Calm
 Choppy
 Rough

Salinity (ppt)

At estuary Sites only

Station ID 013-8349

Date 7/10/13

Vessel Name Early Bird

Arrival Time 0925
(hh:mm)

Abandoned site?

Y or N (If Y explain in comments)

Station Fail Code

Wind

Speed (kts) 0

Direction (4) —

Swell

Period (s) 0

Height (ft) 0

Direction (4) 0

Nav Type

DGPS
 GPS

Station Comments

grab 1 - blowout top of grab

Equipment Type

Van Veen
 Tandem Van Veen

GRAB EVENTS

Sample types (Chk all that apply)

| # | Time (hh:mm) | Latitude (DD°MM.mmmm) | Longitude (DD°MM.mmmm) | Depth (m) | Distance to target (m) | Grab Fail Code (6) | Penetration (cm) | Composition (1) | Odor (2) | Color (3) | Shell Hash (Y/N) | Infauna | Sed Chem | Grain Size | Sed Tox | Debris (Y/N) | Photos |
|----------------------|--------------|-----------------------|------------------------|-----------|------------------------|--------------------|------------------|-----------------|----------|-----------|------------------|---------|----------|------------|---------|--------------|-----------|
| | 0943 | 33 44.3464 | 118 14.1815 | 13.7 | 36 | Other | 16+ | Silt | None | Olive | N | X | X | X | | N | — |
| Grab Event Comments: | | | | | | | | | | | | | | | | | |
| | 0951 | 33 44.3436 | 118 14.1907 | 13.7 | 43 | None | 16 | Silt | None | Olive | N | X | X | X | | N | 0775-0777 |
| Grab Event Comments: | | | | | | | | | | | | | | | | | |
| | 1017 | 33 44.3456 | 118 14.1896 | 13.6 | 43 | None | 16 | Silt | None | Olive | N | | | | X | N | 0778-0779 |
| Grab Event Comments: | | | | | | | | | | | | | | | | | |
| Grab Event Comments: | | | | | | | | | | | | | | | | | |
| Grab Event Comments: | | | | | | | | | | | | | | | | | |
| Grab Event Comments: | | | | | | | | | | | | | | | | | |

- Sediment Composition: Coarse sand, Fine sand, Silt/clay, Gravel, Cobble, Mixed
- Sediment Odor: None (N), Petroleum (P), Hydrogen sulfide (HS), Humic (HU), Other (O, describe in comments)
- Sediment Color: Brown, Gray, Black, Olive green, Red
- Directions: N, NE, E, SE, S, SW, W, NW, or XX for calm
- Station Fail codes: None, Temporary - sea conditions (comment req.), Temporary - atmosphere (comment req.), Temporary - mechanical (comment req.), Pre-abandoned (comment req.), Site On Land (comment req.), Vessel safety (comment req.), No Access Allowed (comment req.), Prolonged rough seas, Bottom salinity <25psu, Too Shallow (comment req.), Too many Event Failures (comment req.), Anthropogenic obstruction (comment req.), Natural hard bottom obstructions (comment req.), Not sampleable - other (comment req.)

Grab Fail codes: None, Outside Radius Limit, Outside Target Depth, Premature closure, Flipped, Rocks/gravel, Dead shell, Live animal (comment req.), Debris (comment req.), Poor closure - other (comment req.), Heavily Canted, Large Humping, Washed, Disturbed Surface, < 5 cm Penetration, <= 7 cm Penetration - biology only

FIELD SAMPLING QA CHECKLIST

Station Location: B13-8326

Arrival Date/Time: 7/10/13 0800

Site Acceptable for Sampling: Y or N If No, reason: _____

Mark each box with Y, N, or NA

Field Procedures

1. Upon arriving at the sampling location, the following site observations are recorded:

| | |
|--|---|
| Is site accessible? | Y |
| Depth and benthic salinity recorded. Within limits? (>3m embayments; ≥25pt salinity) | Y |
| Vessel has been anchored (or tied off) | Y |
| Station DGPS coordinates (± 3 m) recorded | Y |
| Station occupation form completed | Y |

2. Sampling procedures:

| | |
|---|---|
| Field staff wearing fresh, powder free nitrile gloves | Y |
| Equipment washed/rinsed from previous station | Y |
| Vessel engine has been shut off for 5 minutes prior to sampling | Y |
| Sampling instrument washed with Alconox | Y |
| Sampling instrument given site water rinse prior to deployment | Y |
| Sample bottles correctly labeled (minimum: station id, date, agency, parameter) | Y |
| Sample bottles are lab certified, contaminant free | Y |
| Samples containers are the correct type in accordance with Table 5-2 in the Bight' 13 QAM | Y |
| Sample condition meets acceptability criteria (e.g. no surface disturbance, leakage, canting, or washing) | Y |
| Sample penetration meets acceptability criteria (e.g. minimum 5cm for chem/tox; 7cm for infauna) | Y |
| Record grab disposition / characteristic information | Y |
| Samples collected in the following order: infaunal, chemistry, toxicity | Y |
| Chem/Tox samples collected from top 5cm, and 1cm from sides of grab | Y |
| Sediment evenly distributed among containers | Y |
| Stainless steel scoop used to distribute sediment | Y |
| Staff avoided contaminating samples at all times | Y |
| COC seals have been placed over individual sample bottles | Y |
| Site replicate (i.e., duplicate) collected (if applicable) | — |

FIELD SAMPLING QA CHECKLIST

3. Data Recording:

| | |
|---|---|
| Photo of sample grab(s) taken | Y |
| Samples properly logged on COC form | |
| Proper persons have signed the COC | |
| Field notes have been recorded for site before moving to the next | Y |

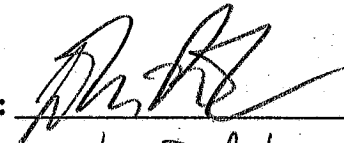
4. Sample Storage:

| | |
|---|---|
| Toxicity samples properly stored on wet ice | Y |
| Chemistry samples properly stored on dry ice | Y |
| Infaunal samples properly relaxed and preserved with formalin | Y |
| Cooler is taped shut for transport to lab | |
| Completed COC is included in plastic bag in cooler | |

5. PPE properly removed and disposed of upon station completion Y

Additional Notes:

Signature of QA/QC Personnel:



Date/Time:

7/20/13 0924

Print Name/Company:

John Rudolph AMEC

STATION OCCUPATION

BIGHT'13

Agency Code POLA/BOB

Weather

Clear
 Overcast
 Partly cloudy
 Drizzle

Rain
 Thunderstorm
 Fog

Sea State

Calm
 Choppy
 Rough

Salinity (ppt)

—

At estuary Sites only

Station ID 013-8326

Date 7/10/13

Vessel Name Eco Bird

Arrival Time 0800
(hh:mm)

Abandoned site?

Y or N (If Y explain in comments)

Station Fail Code

Wind

Speed (kts) 0
 Direction (4) —

Swell

Period (s) 0
 Height (ft) 0
 Direction (4) 0

Nav Type

DGPS
 GPS

Station Comments

Equipment Type

Van Veen
 Tandem Van Veen

GRAB EVENTS

Sample types (Chk all that apply)

| # | Time (hh:mm) | Latitude (DD°MM.mmm) | Longitude (DD°MM.mmm) | Depth (m) | Distance to target (m) | Grab Fail Code (6) | Penetration (cm) | Composition (1) | Odor (2) | Color (3) | Shell Hash (Y/N) | Infau | Sed Chem | Grain Size | Sed Tox | Debris (Y/N) | Photos |
|----------------------|--------------|----------------------|-----------------------|-----------|------------------------|--------------------|------------------|-----------------|----------|-----------|------------------|-------|----------|------------|---------|--------------|-----------|
| | 0828 | 33 43.795 | 118 14.065 | 10.6 | 42 | None | 17 | Silt | N | Olive | N | X | X | X | | N | 0766-0767 |
| Grab Event Comments: | | | | | | | | | | | | | | | | | |
| | 0856 | 33 43.767 | 118 14.025 | 10.8 | 35 | None | 14 | Silt | N | Olive | N | | | | X | N | 0768-0770 |
| Grab Event Comments: | | | | | | | | | | | | | | | | | |
| Grab Event Comments: | | | | | | | | | | | | | | | | | |
| Grab Event Comments: | | | | | | | | | | | | | | | | | |
| Grab Event Comments: | | | | | | | | | | | | | | | | | |

- 1 Sediment Composition: Coarse sand, Fine sand, Silt/clay, Gravel, Cobble, Mixed
- 2 Sediment Odor: None (N), Petroleum (P), Hydrogen sulfide (HS), Humic (HU), Other (O, describe in comments)
- 3 Sediment Color: Brown, Gray, Black, Olive green, Red
- 4 Directions: N, NE, E, SE, S, SW, W, NW, or XX for calm
- 5 Station Fail codes: None, Temporary - sea conditions (comment req.), Temporary - atmosphere (comment req.), Temporary - mechanical (comment req.), Pre-abandoned (comment req.), Site On Land (comment req.), Vessel safety (comment req.), No Access Allowed (comment req.), Prolonged rough seas, Bottom salinity <25psu, Too Shallow (comment req.), Too many Event Failures (comment req.), Anthropogenic obstruction (comment req.), Natural hard bottom obstructions (comment req.), Not sampleable - other (comment req.)

Grab Fail codes: None, Outside Radius Limit, Outside Target Depth, Premature closure, Flipped, Rocks/gravel, Dead shell, Live animal (comment req.), Debris (comment req.), Poor closure - other (comment req.), Heavily Canted, Large Humping, Washed, Disturbed Surface, < 5 cm Penetration, <= 7 cm Penetration - biology only

APPENDIX A-3
FISH SAMPLING FIELD FORMS



CP-trawl #1

Fish Processing Log

Job: GWMA-TMDL Compliance Monitoring
 Waterbody: LA Harbor - Cabrillo Pier
 Station ID: CP
 Field Staff: W. Hinkel (notes), B. Ahn, Jeff Poyson
 Collection Method: Trawl Longline Other: Dustin Ellers

Job No: 141205-01.01
 Collection Date: 9/29/14
 Collection Start Time: 33° 42' 56.35"
 Collection End Time: -118° 16' 22.60"
 Start Coordinates: 8:28 AM ; End TIME = 8:37 AM
 End Coordinates:

Depth - 2.6 m - 5.0 m

Total # of fish collected at station:

TOTAL LENGTH | FORK LENGTH $\rightarrow 33^{\circ}42.3900'$; $-118.16.3229'$

| Fish # | Time | Species | Fish Length (mm) | | Whole fish wet weight (blotted; g) (kg) | Composite # | Notes |
|-------------|-------|---------|------------------|-------------------|---|-------------|--------------------------------------|
| CP-FF-NC-01 | 9:32 | NC | 200 | 196 | 0.08 kg | | Caught a giant boulder at h. 3 trawl |
| CP-FF-CH-01 | 9:43 | CH | 287 | 285 | 0.16 kg | | |
| CP-FF-CH-02 | 9:48 | CH | 311 | 307 | 0.26 kg | | |
| CP-FF-CH-03 | 9:50 | CH | 295 | 292 | 0.21 kg | | |
| CP-FF-CH-04 | 9:52 | CH | 358 | 355 | 0.39 kg | | |
| CP-FF-CH-05 | 9:54 | CH | 363 | 360 | 0.39 kg | | |
| CP-FF-CH-06 | 9:56 | CH | 270 | 265 ^{mm} | 0.16 kg | | |
| CP-FF-CH-07 | 9:59 | CH | 243 | 240 ^{mm} | 0.11 kg | | |
| CP-FF-CH-08 | 10:01 | CH | 230 | 226 | 0.09 kg | | |
| BA | | | | | | | |

Sample Containers: plastic bag

Analyses: How to protocols for various organics, lipid, moisture



CP trawl #2

Fish Processing Log

Job: GWMA-TMDL Compliance Monitoring
 Waterbody: CP
 Station ID: CP
 Field Staff: B. Ahn, J. Simpson, D. Fellers, W. Hovell
 Collection Method: Trawl Longline Other:

Job No: 141205-01.01
 Collection Date: 2/29/14
 Collection Start Time: 10:21
 Collection End Time: 10:10
 Start Coordinates: 33°42.6081, -118°16.6083
 End Coordinates: 33°42.4650, -118°16.3418

Total # of fish collected at station:

| Fish # | Time | Species | Fish Length (mm) | Whole fish wet weight (blotted; g) | Composite # | Notes |
|------------------------|------------------|---------------|--------------------|------------------------------------|-------------|------------------------|
| CP-PF-CH-09 | 10:23 | CH | 331 330 | 0.35 kg | | |
| CP-PF-CH-10 | 10:27 | CH | 315 314 | 0.31 kg | | |
| CP-PF-CH-11 | 10:29 | CH | 295 294 | 0.28 kg | | |
| CP-PF-CH-12 | 10:31 | CH | 321 320 | 0.30 kg | | |
| CP-PF-WC-02 | 10:33 | WC | 209 205 | 0.10 kg | | |
| CP-PF-WC-03 | 10:36 | WC | 214 213 | 0.11 kg | | |
| CP-PF-WC-04 | 10:34 | WC | 207 203 | 0.11 kg | | |
| CP-PF-WC-05 | 10:40 | WC | 205 202 | 0.10 kg | | |
| CP-PF-WC-06 | 10:42 | WC | 208 203 | 0.10 kg | | |
| CP-PF-WC-07 | 11:20 | WC | 226 225 | Wt | | in trawl #1 |
| CP-PF-WC-08 | | WC | | | | |
| CP-PF-WC | | | | | | |

BA

Sample Containers:

Analyses:



CP trawl #3

Fish Processing Log

Job: GWMA-TMDL Compliance Monitoring
Waterbody: CP - Outer i Pt Harbor
Station ID: CP
Field Staff: B. Ahr, J. Pymson, W. Howell, D. Feilberg
Collection Method: Trawl Longline Other:

Job No: 141205-01.01
Collection Date: 9/29/14
Collection Start Time: 10:23
Collection End Time: 10:35
Start Coordinates: 33° 42.4116 , -118° 16.1120
End Coordinates: 33° 42.4110 , -118° 16.5920

Total # of fish collected at station:

| Fish # | Time | Species | Fish Length (mm) | Whole fish wet weight (blotted; g) | Composite # | Notes |
|------------------------|------------------|----------------|--------------------|------------------------------------|-------------|--------------------------------|
| CP-PP-01-01 | 10:23 | CLK | 331 330 | | | only caught but ran |
| <i>BA</i> | | | | | | |
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Sample Containers: _____
Analyses: _____



CP trawl #4

Fish Processing Log

Job: GWMA-TMDL Compliance Monitoring
 Waterbody: CP / Outer LA Harbor
 Station ID: CP
 Field Staff: B. Pahr, J. Pagnon, W. Havel, D. Fellows
 Collection Method: Trawl Longline Other:

Job No: 141205-01.01
 Collection Date: 7/29/14
 Collection Start Time: 10:54
 Collection End Time: 11:05
 Start Coordinates: 33° 42' 00" N / 118° 16' 73" W
 End Coordinates: 33° 42' 46.88" N / 118° 16' 37.49" W

Total # of fish collected at station:

| Fish # | Time | Species | Fish Length (mm) | | Whole fish wet weight (blotted; g) / kg | Composite # | Notes |
|------------------------|---------------------------|---------|------------------|-----|---|-------------|-------|
| CP-FF-WC-07 | 11:20 | WC | 224 | 226 | 0.22 kg | | |
| CP-FF-WC-09 | 11:26 11:27 | WC | 225 | 222 | 0.17 kg | | |
| CP-FF-WC-08 | 11:25 | WC | 226 | 226 | 0.10 kg | | |
| CP-FF-WC-10 | 11:28 | WC | 220 | 215 | 0.14 kg | | |
| CP-FF-WC-11 | 11:29 | WC | 217 | 215 | 0.13 kg | | |
| CP-FF-WC-12 | 11:31 | WC | 214 | 213 | 0.13 kg | | |
| CP-FF-WC-13 | | | | | | | |
| CP-FF-WC-14 | | | | | | | |
| CP-FF-WC-15 | | | | | | | |
| CP-FF-WC-16 | | | | | | | |
| CP-FF-WC-17 | | | | | | | |
| CP-FF-WC-18 | | | | | | | |
| CP-FF-WC-19 | | | | | | | |
| CP-FF-WC-20 | | | | | | | |
| CP-FF-WC-21 | | | | | | | |
| CP-FF-WC-22 | | | | | | | |
| CP-FF-WC-23 | | | | | | | |
| CP-FF-WC-24 | | | | | | | |
| CP-FF-WC-25 | | | | | | | |
| CP-FF-WC-26 | | | | | | | |
| CP-FF-WC-27 | | | | | | | |
| CP-FF-WC-28 | | | | | | | |
| CP-FF-WC-29 | | | | | | | |
| CP-FF-WC-30 | | | | | | | |
| CP-FF-WC-31 | | | | | | | |
| CP-FF-WC-32 | | | | | | | |
| CP-FF-WC-33 | | | | | | | |
| CP-FF-WC-34 | | | | | | | |
| CP-FF-WC-35 | | | | | | | |
| CP-FF-WC-36 | | | | | | | |
| CP-FF-WC-37 | | | | | | | |
| CP-FF-WC-38 | | | | | | | |
| CP-FF-WC-39 | | | | | | | |
| CP-FF-WC-40 | | | | | | | |

Sample Containers:

Analyses:

For length mm

BA



CP trawl #5

Fish Processing Log

Job: GWMA-TMDL Compliance Monitoring
 Waterbody: CP, Outer LA Harbor
 Station ID: CP
 Field Staff: Wittrel, J. Payson D. Fellers, B. Alvar
 Collection Method: Trawl Longline Other:

Job No: 141205-01.01
 Collection Date: 9/28/14
 Collection Start Time: 11:28
 Collection End Time: 11:38
 Start Coordinates: 33° 42.6758', -118° 16.7413
 End Coordinates: 33° 42.4935 -118.16.2784

Total # of fish collected at station:

| Fish # | Time | Species | Fish Length (mm) | Whole fish wet weight (blotted; g) | Composite # | Notes |
|-------------|-------|---------|---------------------|------------------------------------|-----------------------------|--|
| CP-FF-WP-01 | 11:54 | WP | 113 | 104 | Total wt of 12 WP = 0.16 kg | WP From other trawls Held until processing |
| CP-FF-WP-02 | | WP | 116 | 106 | | |
| CP-FF-WP-03 | | WP | 95 | 86 | | |
| CP-FF-WP-04 | | WP | 93 | 84 | | |
| CP-FF-WP-05 | | WP | 124 | 112 | | |
| CP-FF-WP-06 | | WP | 107 | 98 | | |
| CP-FF-WP-07 | | WP | 105 | 93 | | |
| CP-FF-WP-08 | | WP | 96 | 89 | | |
| CP-FF-WP-09 | | WP | 103 | 90 | | |
| CP-FF-WP-10 | | WP | 92 | 85 | | |
| CP-FF-WP-11 | | WP | 100 | 87 | | |
| CP-FF-WP-12 | | WP | 95 95 | 85 85 | | |
| BA | | | | | | |

Sample Containers:

Analyses:

0.123
 12 * 0.160
 12 / 0.160
 0.75

CP trawl #C



Fish Processing Log

Job: GWMA-TMDL Compliance Monitoring
Waterbody: CP / Outer LA Harbor
Station ID: CP
Field Staff: W Havel B. Abrey, D Fellers, J. Payson
Collection Method: Trawl Longline Other:

Job No: 141205-01.01
Collection Date: 9/29/2014
Collection Start Time: 14:30
Collection End Time: 14:40
Start Coordinates: 33°42.6410' 118° 16.6850'
End Coordinates: 33°42.5458' - 118° 16.3622'

Total # of fish collected at station:

| Fish # | Time | Species | Fish Length (mm) | Whole fish wet weight (blotted; g) | Composite # | Notes |
|-----------------------|-------|---------|------------------|------------------------------------|-------------|-------|
| CP # CH-13 | 14:54 | CH | 25 Pt | 4.72 kg | | |
| CP # WA-13 | | | | | | |
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Sample Containers: _____
Analyses: _____



CP trawl #7

Fish Processing Log

Job: GWMA-TMDL Compliance Monitoring
Waterbody: CP / on the LA
Station ID: CH
Field Staff: W Hovel, B Ahn, D Fellers, J Payne
Collection Method: Trawl Longline Other:

Job No: 141205-01.01
Collection Date: 7/29/14
Collection Start Time: 15:05
Collection End Time: 15:12
Start Coordinates: 32° 42.6765' - 118° 16.7788'
End Coordinates: 33° 42.8633' - 118° 16.6471'

Total # of fish collected at station:

| Fish # | Time | Species | Fish Length (mm) | Whole fish wet weight (blotted; g) | Composite # | Notes |
|---------------------|------------------|---------------|-------------------|------------------------------------|-------------|-------|
| CP-CH-15 | 14:54 | CH | 2.5 IN | 2.5 IN | | |
| / | | | | | | |
| BR | | | | | | |

Sample Containers:

Analyses:

CP Trawl #8



Fish Processing Log

Job: GWMA-TMDL Compliance Monitoring
Waterbody: CP / Santa Clara River
Station ID: CP
Field Staff: WH, BA, DF, JP
Collection Method: Trawl Longline Other:

Job No: 141205-01.01
Collection Date: 9/29/14
Collection Start Time: 1519
Collection End Time: 1527
Start Coordinates: 33°42.6383', -118°16.6554
End Coordinates: 33°42.5205', -118°16.4032

Total # of fish collected at station:

| Fish # | Time | Species | Fish Length (mm) | Whole fish wet weight (blotted; g) | Composite # | Notes |
|-------------|-------|---------|------------------|------------------------------------|-------------|-------|
| CP-PP CH-14 | 15:39 | CH | 420 / 414 | 0.74 kg | | |
| CP-PP CH-13 | 15:41 | CH | 599 / 592 | 2.28 kg | | |
| BA | | | | | | |

Sample Containers:

Analyses:



CP trawl #19

Fish Processing Log

Job: GWMA-TMDL Compliance Monitoring
 Waterbody: CP/Outer LA
 Station ID: CP
 Field Staff: Same
 Collection Method: Trawl Longline Other:

Job No: 141205-01.01
 Collection Date: 9/29/14
 Collection Start Time: 15:43
 Collection End Time: 15:52
 Start Coordinates: 33°42.630'N -118°16.651'W
 End Coordinates: 33°42.529'N -118°16.316'W

Total # of fish collected at station:

| Fish # | Time | Species | Fish Length (mm) | | Whole fish wet weight (blotted; g) | Composite # | Notes |
|--------|-------|---------|------------------|-----|---|-------------|-------|
| WP-13 | 16:05 | WP | 101 | 97 | 0.14 kg ↓ total weight of all fish (wp) in this group | | |
| WP-14 | | WP | 113 | 105 | | | |
| WP-15 | | | 106 | 95 | | | |
| WP-16 | | | 101 | 92 | | | |
| WP-17 | | | 97 | 90 | | | |
| WP-18 | | | 95 | 89 | | | |
| WP-19 | | | 104 | 96 | | | |
| WP-20 | | | 110 | 98 | | | |
| WP-21 | | | 105 | 97 | | | |
| WP-22 | | | 93 | 85 | | | |
| WP-23 | | | 122 | 110 | | | |
| WP-24 | | | 98 | 90 | | | |
| WP-25 | | | 105 | 95 | | | |
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Sample Containers:

Analyses:



Fish Processing Log

Job: GWMA-TMDL Compliance Monitoring
 Waterbody: CABRILLO BAY
 Station ID: _____
 Field Staff: Abel, Fellers, Payson
 Collection Method: Trawl Longline Other: _____

Job No: 141205-01.01
 Collection Date: 09/30/14
 Collection Start Time: 1545
 Collection End Time: 1557
 Start Coordinates: 33.42.6878 N / 118.16.7866 W
 End Coordinates: 33.42.6339 N / 118.16.3985 W

Total # of fish collected at station:

| Fish # | Time | Species | Fish Length (mm) | Whole fish wet weight (blotted; g) | Composite # | Notes |
|---------------|------|---------|------------------|------------------------------------|-------------|--------------------|
| CB-WS-13 | 1557 | WS | 101 f / 112 t | 5g | | f = fork t = total |
| CB-WS-14 | 1557 | WS | 93 f / 102 t | 5g | | |
| BT | | | | | | |

Sample Containers: _____

Analyses: _____

Fish Processing Log

No target fish
caught
(perch)

Job: GWMA-TMDL Compliance Monitoring
 Waterbody: Cabrillo Pier
 Station ID: _____
 Field Staff: B. Abur, D. Eilers, J. Payson
 Collection Method: Trawl Longline Other: _____

Job No: 141205-01.01
 Collection Date: 9-30-2014
 Collection Start Time: 1615
 Collection End Time: 1629
 Start Coordinates: 33°42.6323 118°16.716
 End Coordinates: 33.42.5138 N 118.16.4481 W

Total # of fish collected at station:

| Fish # | Time | Species | Fish Length (mm) | Whole fish wet weight (blotted; g) | Composite # | Notes |
|--------|------|---------|------------------|------------------------------------|-------------|-------|
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BA

Sample Containers: _____

Analyses: _____



Fish Processing Log

Job: GWMA-TMDL Compliance Monitoring
 Waterbody: Consolidated SLIP
 Station ID: _____
 Field Staff: Ahr, Pellers, Payson
 Collection Method: Trawl Longline Other:

Job No: 141205-01.01
 Collection Date: 10/01/14
 Collection Start Time: 2255
 Collection End Time: 2303
 Start Coordinates: 33.46.4591 N / 118.14.8273 W
 End Coordinates: 33.46.7777 N / 118.15.0654 W

Total # of fish collected at station:

| Fish # | Time | Species | Fish Length (mm) | Whole fish wet weight (blotted; g) | Composite # | Notes |
|----------|------|---------|------------------|------------------------------------|-------------|-------------------------------|
| CS-WC-01 | 2305 | WC | 241P / 248T | 100g | / | TRAWL 01 |
| CS-WC-02 | 2305 | WC | 188P / 191T | 90g | | C = fork + total |
| CS-WC-03 | 2305 | WC | 247P / 207T | 120g | | |
| CS-WC-04 | 2305 | WC | 237P / 240T | 190g | | |
| CS-WC-05 | 2330 | WC | 198P / 199T | 100g | | TRAWL 02 |
| CS-WC-06 | 2410 | WC | 253P / 256T | 210g | | START |
| CS-WC-07 | 2410 | WC | 250P / 230T | 170g | | 2320 |
| CS-WC-08 | 2410 | WC | 250P / 252T | 230g | | 33.46.4870 N 118.14.7675 W |
| | | | | | | END |
| | | | | | | 2330 |
| | | | | | | 33.46.1803 N 118.15.0512 W |
| | | | | | | TRAWL 03 |
| | | | | | | START |
| | | | | | | 2352 |
| | | | | | | 33.46.4798 N 118.14.7632 W |
| | | | | | | END |
| | | | | | | 2410 |
| | | | | | | 33.46.1578 N 118.15.0781 W |

Sample Containers: _____

 Analyses: _____



Fish Processing Log

Job: GWMA-TMDL Compliance Monitoring
 Waterbody: Consolidated Slip
 Station ID: _____
 Field Staff: D. Fellers, J. Payson, B. Ahr
 Collection Method: Trawl Longline Other: _____

Job No: 141205-01.01
 Collection Date: 10-2-2014
 Collection Start Time: 33.46.5219 N / 118.14.6681 W
 Collection End Time: 33.46.2463 N / 118.15.0018 W
 Start Coordinates: 1220 - 1232
 End Coordinates: _____

Total # of fish collected at station:

| Fish # | Time | Species | Fish Length (mm) | Whole fish wet weight (blotted; g) | Composite # | Notes |
|--------|------|---------|------------------|------------------------------------|-------------|-------------------------------|
| | | | | | | TRAWL #2 |
| | | | | | | START 1245 |
| | | | | | | 33.46.5202 N 118.14.6689 W |
| | | | | | | END 1257 |
| | | | | | | 33.46.2333 N 118.15.0166 W |
| | | | | | | TRAWL #3 |
| | | | | | | START 1310 |
| | | | | | | 33.46.5036 N 118.14.7061 W |
| | | | | | | END 1323 |
| | | | | | | 33.46.2095 N 118.15.0278 W |
| | | | NO FISH | | | |
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Sample Containers: _____

Analyses: _____

Consolidated Slip (LA Harbor - CS-03)

Sea State: Calm
 Weather: Partly Cloudy
 Wind: 2 kts (West)
 Trawl: 1

| | Deg. | Min (Dec.) | Deg. | Min (Dec.) | Depth (m) | Wire Out (ft) |
|-----------------|--------------|------------|------------|------------|-----------|---------------|
| Net Over | 958 33 deg. | 46.493 | - 118 deg. | 14.773 | 8 | 32 |
| Start Trawl | 958 33 deg. | 46.493 | - 118 deg. | 14.773 | 8 | 32 |
| Intrvl. 1 (20%) | -- -- | -- | -- | -- | -- | -- |
| Intrvl. 2 (40%) | 1004 33 deg. | 46.406 | - 118 deg. | 14.908 | 7.9 | 32 |
| Intrvl. 3 (60%) | -- -- | -- | -- | -- | -- | -- |
| Intrvl. 4 (80%) | 33 deg. | 46.298 | - 118 deg. | 14.985 | 13.6 | 60 |
| End Trawl | 1010 33 deg. | 46.207 | - 118 deg. | 15.035 | 13 | 60 |
| Net on Deck | 1012 33 deg. | 46.185 | - 118 deg. | 15.043 | 13 | 60 |

Consolidated Slip (LA Harbor - CS-03)

Sea State: Calm
 Weather: Partly Cloudy
 Wind: 2 kts (West)
 Trawl: 2

| | Deg. | Min (Dec.) | Deg. | Min (Dec.) | Depth (m) | Wire Out (ft) |
|-----------------|--------------|------------|------------|------------|-----------|---------------|
| Net Over | 1028 33 deg. | 46.505 | - 118 deg. | 14.725 | 8.2 | |
| Start Trawl | 1028 33 deg. | 46.496 | - 118 deg. | 14.753 | 8.2 | 32 |
| Intrvl. 1 (20%) | -- -- | -- | -- | -- | -- | -- |
| Intrvl. 2 (40%) | 1032 33 deg. | 46.418 | - 118 deg. | 14.910 | 8 | 32 |
| Intrvl. 3 (60%) | 1035 33 deg. | 46.361 | - 118 deg. | 14.948 | 8 | 32 |
| Intrvl. 4 (80%) | 1037 33 deg. | 46.29 | - 118 deg. | 14.987 | 8 | 32 |
| End Trawl | 1039 33 deg. | 46.225 | - 118 deg. | 15.022 | 13.8 | 58 |
| Net on Deck | 1041 33 deg. | 46.193 | - 118 deg. | 15.044 | 13.8 | 58 |

Consolidated Slip (LA Harbor - CS-03)

Sea State: Calm
 Weather: Partly Cloudy
 Wind: 2 kts (West)
 Trawl: 3

| | Deg. | Min (Dec.) | Deg. | Min (Dec.) | Depth (m) | Wire Out (ft) |
|-----------------|--------------|------------|------------|------------|-----------|---------------|
| Net Over | 1057 33 deg. | 46.531 | - 118 deg. | 14.660 | 8 | -- |
| Start Trawl | 1059 33 deg. | 46.509 | - 118 deg. | 14.724 | 8 | 32 |
| Intrvl. 1 (20%) | -- -- | -- | -- | -- | -- | -- |
| Intrvl. 2 (40%) | 1104 33 deg. | 46.445 | - 118 deg. | 14.870 | 7.9 | 32 |
| Intrvl. 3 (60%) | 1106 33 deg. | 46.401 | - 118 deg. | 14.951 | 7.9 | 32 |
| Intrvl. 4 (80%) | -- -- | -- | -- | -- | -- | -- |
| End Trawl | 1115 33 deg. | 46.156 | - 118 deg. | 15.080 | 14.4 | 32 |
| Net on Deck | 1116 33 deg. | 46.150 | - 118 deg. | 15.077 | 14.4 | 32 |

Consolidated Slip (LA Harbor - CS-03)

Sea State: Calm
 Weather: Partly Cloudy
 Wind: 2 kts (West)
 Trawl: 4

| | Deg. | Min (Dec.) | Deg. | Min (Dec.) | Depth (m) | Wire Out (ft) |
|-----------------|--------------|------------|------------|------------|-----------|---------------|
| Net Over | 1207 33 deg. | 46.547 | - 118 deg. | 14.623 | 8 | --- |
| Start Trawl | 1208 33 deg. | 46.488 | - 118 deg. | 14.750 | 8 | 32 |
| Intrvl. 1 (20%) | 1210 33 deg. | 46.440 | - 118 deg. | 14.848 | 8 | 32 |
| Intrvl. 2 (40%) | 1213 33 deg. | 46.406 | - 118 deg. | 14.904 | 8 | 32 |
| Intrvl. 3 (60%) | 1215 33 deg. | 46.351 | - 118 deg. | 14.950 | 8 | 32 |
| Intrvl. 4 (80%) | 1219 33 deg. | 46.254 | - 118 deg. | 15.006 | 13 | 52 |
| End Trawl | 1219 33 deg. | 46.254 | - 118 deg. | 15.006 | 13 | 52 |
| Net on Deck | 1220 33 deg. | 46.213 | - 118 deg. | 15.031 | 13 | 52 |



Fish Processing Log

Pier J. Trawl #1

Job: GWMA-TMDL Compliance Monitoring
 Waterbody: Eastern SAN Pedro Bay
 Station ID: _____
 Field Staff: B. Ahr, D. Fellers, J. Dayton
 Collection Method: Trawl Longline Other: _____

Job No: 141205-01.01
 Collection Date: 9-30-2014
 Collection Start Time: 0809
 Collection End Time: 0839
 Start Coordinates: 33.44.5140 N / 118.11.1882 W
 End Coordinates: 33.55.0834 N / 118.11.0402 W

Total # of fish collected at station:

| Fish # | Time | Species | Fish Length (mm) | Whole fish wet weight (blotted; g) | Composite # | Notes |
|----------|------|---------|------------------|------------------------------------|-------------|--------------|
| SP-WC-01 | 0839 | WC | 245 F / 247 T | 0.16 kg | 160g | 10 min trawl |
| SP-WC-02 | | WC | 232 F / 234 T | 140g | | F = fork |
| SP-WC-03 | | WC | 216 F / 220 T | 100g | | T = Total |
| SP-WC-04 | | WC | 228 F / 230 T | 120g | | |
| SP-WC-05 | | WC | 249 F / 251 T | 170g | | |
| SP-WC-06 | | WC | 218 F / 225 T | 120g | | |
| SP-WC-07 | | WC | 235 F / 240 T | 140g | | |
| SP-WC-08 | | WC | 232 F / 241 T | 180g | | |
| SP-WC-09 | | WC | 249 F / 253 T | 190g | | |
| SP-WC-10 | | WC | 237 F / 246 T | 180g | | |
| SP-WC-11 | | WC | 240 F / 244 T | 160g | | |
| SP-WC-12 | | WC | 225 F / 226 T | 150g | | |
| SP-CH-01 | | CH | 535 T | 350g | | |
| SP-CH-02 | | CH | 540 T | 1590g | | |
| SP-CH-03 | | CH | 265 T | 170g | | |
| SP-CL-01 | | CL | 319 F / 314 T | 220g | | |
| SP-CL-02 | | CL | 300 F / 322 T | 200g | | |
| SP-CL-03 | | CL | 289 F / 305 T | 160g | | |
| SP-CL-04 | | CL | 250 F / 266 T | 160g | | |
| SP-CL-05 | | CL | 250 F / 265 T | 140g | | |

Continue on next page →

Sample Containers:

Analyses:



Fish Processing Log

Pier J Trawl #2

Job: GWMA-TMDL Compliance Monitoring
 Waterbody: Eastern San Pedro Bay
 Station ID: _____
 Field Staff: Abr, Fellers, Payson
 Collection Method: Trawl Longline Other: _____

Job No: 141205-01.01
 Collection Date: 09/30/14
 Collection Start Time: 0840
 Collection End Time: 0850
 Start Coordinates: 33.44.855 2 N / 118.11.2636 W
 End Coordinates: 33.44.5785 N / 118.11.1846 W

Total # of fish collected at station:

| Fish # | Time | Species | Fish Length (mm) | Whole fish wet weight (blotted; g) | Composite # | Notes |
|-----------------------------|------|---------|------------------|------------------------------------|-------------|-------|
| (See sheet 1 of 2) | | | | | | |
| Pier J TRAWL #1 Data cont'd | | | | | | |
| SP-CL-06 | 0839 | CL | 240 F / 260 T | 120g | | |
| SP-CL-07 | ↓ | CL | 242 F / 251 T | 130g | | |
| SP-CL-08 | | CL | 275 F / 294 T | 140g | | |
| SP-CL-09 | | CL | 254 F / 275 | 136g | | |
| SP-CL-10 | | CL | 238 F / 255 T | 120g | | |
| SP-CL-11 | | CL | 245 F / 260 T | 130g | | |
| SP-CL-12 | | CL | 227 F / 244 T | 120g | | |
| BR | | | | | | |

Sample Containers: _____

Analyses: _____



Fish Processing Log

Pier J - Trawl #3 - #5
 ↳ No fish to record

Job: GWMA-TMDL Compliance Monitoring
 Waterbody: Eastern San Pedro Bay
 Station ID: _____
 Field Staff: Ahr, Fellers, Payson
 Collection Method: Trawl Longline Other:

Job No: 141205-01.01
 Collection Date: 09/30/14
 Collection Start Time: 0907
 Collection End Time: 0917
 Start Coordinates: 33.44.6211 N / 118.10.9481 W
 End Coordinates: 33.45.0517 N / 118.10.9651 W

Total # of fish collected at station:

| Fish # | Time | Species | Fish Length (mm) | Whole fish wet weight (blotted; g) | Composite # | Notes |
|--------|------|---------|------------------|------------------------------------|-------------|-------|
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Sample Containers: _____

 Analyses: _____

Time: START 0954
 TRAWL #5 09/30/14
 START 33.44.5381 / 118.10.6875
 END 33.44.2145 / 118.10.9763
 3345.0835 N / 118.10.9633
 33.44.6414 N / 118.10.6633 W
 9/30/14 TRAWL #4
 START 0933 START → 0946
 33.45.0517 N START
 33.44.5385 N END 118.11.1826 W



Fish Processing Log *Pier J-Trawl #16 NO FISH TO RECORD*

Job: GWMA-TMDL Compliance Monitoring
 Waterbody: Eastern San Pedro Bay
 Station ID: _____
 Field Staff: Alvin Fellers, Payson
 Collection Method: Trawl Longline Other:

Job No: 141205-01.01
 Collection Date: 09/30/14
 Collection Start Time: 1017
 Collection End Time: 1027
 Start Coordinates: 33.44.5906 N / 118.11.1757 W
 End Coordinates: 33.44.9268 N / 118.11.1917 W

Total # of fish collected at station:

| Fish # | Time | Species | Fish Length (mm) | Whole fish wet weight (blotted; g) | Composite # | Notes |
|--------|------|---------|------------------|------------------------------------|-------------|-------|
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DK

Sample Containers: _____

 Analyses: _____



Fish Processing Log

Job: GWMA-TMDL Compliance Monitoring
 Waterbody: ENST SAN PEDRO BAY
 Station ID: _____
 Field Staff: Ahr, Felles, Payson
 Collection Method: Trawl Longline Other: _____

Job No: 141205-01.01
 Collection Date: 10/21/14
 Collection Start Time: 1455
 Collection End Time: 1505
 Start Coordinates: 33.44.4851 / 118.10.5069
 End Coordinates: 33.44.8316 / 118.10.2797

Total # of fish collected at station:

| Fish # | Time | Species | Fish Length (mm) | Whole fish wet weight (blotted; g) | Composite # | Notes |
|----------|------|---------|------------------|------------------------------------|-------------|---|
| SB-CH-04 | 1505 | CH | 340 | 380 | / | 13m trawl (depth) |
| SB-CH-05 | 1532 | CH | 295 | 230 | / | TRAWL Ø2 |
| SB-CH-06 | 1530 | CH | 300 | 230 | / | START 1520 10.3M |
| SB-CH-07 | 1600 | CH | 333 | 292 | / | 33.45.1725 N 118.10.1956 W START END 1532 |
| SB-CH-08 | 1600 | CH | 570 | 1680 | / | |
| SB-CH-09 | 1600 | CH | 487 | 970 | / | 33.45.3325 N END 118.09.9480 W |
| SB-PA-01 | | PA | 138P / 157T | 70 | / | TRAWL Ø3 |
| SB-PA-02 | | PA | 130P / 149T | 50 | / | START 1545 19.0M |
| SB-PA-03 | | PA | 139P / 159T | 70 | / | 33.45.3511 N 118.09.8866 W START END 1600 |
| SB-PA-04 | | PA | 140P / 165T | 50 | / | |
| SB-PA-05 | | PA | 118P / 137T | 40 | / | 33.45.4630 END 118.10.3182 |
| SB-PA-06 | | PA | 138P / 157T | 60 | / | TRAWL Ø4 |
| SB-PA-07 | | PA | 132P / 154T | 60 | / | START 1610 |
| SB-PA-08 | | PA | 142P / 154T | 80 | / | 33.45.3889 N START 118.10.1810 W |
| SB-PA-09 | | PA | 141P / 159T | 70 | / | END 1620 |
| SB-PA-10 | | PA | 100P / 111T | 50 | / | 33.45.3889 N 118.10.1840 W END |
| SB-PA-11 | | PA | 99P / 110T | 30 | / | TRAWL Ø5 |
| SB-PA-12 | | PA | 98P / 112T | 20 | / | START 1615 END 1625 |
| SB-PA-13 | 1625 | PA | 99P / 111T | 20 | / | START COORD. END COORD 33.45.3845 118.09.6240 |
| SB-PA-14 | | PA | 93P / 106T | 30 | / | |

Sample Containers: _____

Analyses: _____



Fish Processing Log

Job: GWMA-TMDL Compliance Monitoring
 Waterbody: EAST SAN PEDRO BAY
 Station ID: _____
 Field Staff: Ahr, Fellers, Payson
 Collection Method: Trawl Longline Other: _____

Job No: 141205-01.01
 Collection Date: 10/01/14
 Collection Start Time: 1645
 Collection End Time: 1705
 Start Coordinates: 33.45.2447N
118.09.7723 W
 End Coordinates: 33.45.3544N
118.10.4434 W

TRAWL 06

Total # of fish collected at station:

| Fish # | Time | Species | Fish Length (mm) | Whole fish wet weight (blotted; g) | Composite # | Notes |
|----------|------|---------|------------------|------------------------------------|-------------|---|
| SB-CH-10 | 1625 | CH | 455 | 930 | | |
| SB-CH-11 | 1705 | CH | 242 | 130 | | TRAWL 06 |
| SB-CH-12 | 1735 | CH | 279 | 200 | | TRAWL 07 |
| SB-PA-15 | 1735 | PA | 71f/82t | <5g | | START 1730 33.45.5655 N 118.10.2662 W > START |
| SB-PA-16 | 1735 | PA | 84f/97t | 30g | | END 1735 |
| SB-PA-17 | 1735 | PA | 87f/99t | 30g | | 33.45.4582 N 118.09.7736 W > END |
| SB-PA-18 | 1735 | PA | 90f/101t | 30g | | |
| SB-PA-19 | 1735 | PA | 91f/104t | 20g | | |
| SB-PA-20 | 1735 | PA | 86f/98t | 20g | | |
| SB-PA-21 | 1735 | NA | N/A | 80g | | Anchovy, not measured as individuals |
| | 2008 | | | | | |
| | | | | | | 53.44.8802 |
| | | | | | | 118.10.6694 |
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Sample Containers: _____

Analyses: _____

BP

SB-NA-01



Fish Processing Log

Job: GWMA-TMDL Compliance Monitoring
 Waterbody: San Pedro Bay / Pier J
 Station ID: _____
 Field Staff: B. Ahr, J. Payson, D. Fellers
 Collection Method: Trawl Longline Other: _____

Job No: 141205-01.01
 Collection Date: 10-2-2014
 Collection Start Time: 1430
 Collection End Time: 1604
 Start Coordinates: _____
 End Coordinates: _____

Total # of fish collected at station:

| Fish # | Time | Species | Fish Length (mm) | Whole fish wet weight (blotted; g) | Composite # | Notes |
|--------|------|---------|------------------|------------------------------------|-------------|------------------|
| | | | | | | Trawl 01 |
| | | | | | | Start |
| | | | | | No Fish | 1430 |
| | | | | | | 33° 44.8251 |
| | | | | | | 118° 09.5169 |
| | | | | | | END |
| | | | | | | 1444 |
| | | | | | | 33° 44.9592 |
| | | | | | | 118° 08.9731 |
| | | | | | | _____ |
| | | | | | | Trawl 02 |
| | | | | | | Start |
| | | | | | | 1454 |
| | | | | | No Fish | 33° 45.1090 |
| | | | | | | 118° 08.7154 |
| | | | | | | End |
| | | | | | | 1505 |
| | | | | | | 33° 44.9747 |
| | | | | | | 118° 08.2252 |
| | | | | | | _____ |
| | | | | | | Trawl 03 |
| | | | | | | Start |
| | | | | | | 1518 |
| | | | | | | 33° 44.3072 |
| | | | | | | 118° 08.5927 |
| | | | | | | End |
| | | | | | | 1530 |
| | | | | | | 33° 44.3166 |
| | | | | | | 118° 09.0643 |
| | | | | | | _____ |
| | | | | | | Trawl 04 |
| | | | | | | Start |
| | | | | | | 1551 |
| | | | | | | 33° 44.4662 |
| | | | | | | 118° 11.0169 |
| | | | | | | END |
| | | | | | | 1604 |
| | | | | | | 33° 44.8889 |
| | | | | | | 118° 11.1248 |

Sample Containers: _____

Analyses: _____



OB trawl #1

Fish Processing Log

Job: GWMA-TMDL Compliance Monitoring

Job No: 141205-01.01

Waterbody: OB 0

Collection Date: 9/29/14 ST: 12:54 End time: 1:03

Station ID: OB

Collection Start Time: 33° 44' 2018

Field Staff: W. Hovel, B. Uhr, D. Fellers, J. Payson

Collection End Time: 118° 14' 3554

Collection Method: Trawl Longline Other:

Start Coordinates:

End Coordinates: 33° 43.9033; -118.14.1454

Total # of fish collected at station:

| Fish # | Time | Species | Fish Length (mm) | Whole fish wet weight (blotted; g) | Composite # | Notes |
|--------------|------|---------|------------------|------------------------------------|-------------|--------------------------------------|
| <u>OB-#-</u> | | | | | | <u>Fish from trawl #2</u> |
| | | | | | | <u>See next page for coordinates</u> |
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Sample Containers:

Analyses:



OB trawl #2

Fish Processing Log

Job: GWMA-TMDL Compliance Monitoring
 Waterbody: OB
 Station ID: OB
 Field Staff: W. Harold B. Amr D. Fellers J. Payne
 Collection Method: Trawl Longline Other:

Job No: 141205-01.01
 Collection Date: 9/29/2014
 Collection Start Time: 13:16
 Collection End Time: 13:22
 Start Coordinates: 33° 44' 03.64" -118° 14' 34.67"
 End Coordinates: 33° 44' 38.60" -118° 14' 44.30"

Coordinates for trawl #2

Total # of fish collected at station:

| Fish # | Time | Species | Fish Length (mm) | Fish Weight (g) | Whole fish wet weight (blotted; g) | Composite # | Notes |
|-------------|------------------|---------|--------------------|--------------------|------------------------------------|-------------|---------------|
| OB FF WC-01 | 13:18 | WC | 236 | 235 | 0.15 | | |
| WC-02 | 13:19 | WC | 235 | 227 | 0.12 | | Fish from |
| WC-03 | 13:21 | WC | 225 | 218 | 0.11 | | Trawl #1 |
| WC-04 | 13:22 | WC | 213 | 212 | 0.10 | | |
| WC-05 | 13:23 | WC | 225 | 219 | 0.14 | | |
| WC-06 | 13:24 | WC | 221 | 215 | 0.12 | | |
| WC-07 | 13:25 | WC | 227 | 225 | 0.12 | | |
| WC-08 | 13:26 | WC | 226 | 222 | 0.11 | | |
| WC-09 | 13:28 | WC | 212 212 | 210 | 0.11 | | |
| WC-10 | 13:29 | WC | 217 | 215 | 0.14 | | |
| WC-11 | 13:31 | WC | 212 | 211 211 | 0.13 | | |
| WC-12 | 13:32 | WC | 215 | 213 | 0.14 | | |
| OB FF CH-01 | 13:43 | CH | 324 | 319 | 0.31 | | Habitat from |
| CH-02 | 13:46 | CH | 480 | 475 | 1.09 | | trawl #2 |
| CH-03 | 13:47 | | | | | | NEXT PAGE |
| CH-04 | 14:12 | CH | 222 | 222 | 0.06 | | From trawl #2 |
| CH-05 | 14:13 | CH | 230 | 230 | 0.08 | | " " " |

Sample Containers:

Analyses:



OB trawl #3

Fish Processing Log

Job: GWMA-TMDL Compliance Monitoring
 Waterbody: OB
 Station ID: OB
 Field Staff: W Threl B Mr Dellers J. Sangler
 Collection Method: Trawl Longline Other:

Job No: 141205-01.01
 Collection Date: 7/29/14
 Collection Start Time: 13:44
 Collection End Time: _____
 Start Coordinates: 33° 44.4550' -118° 14.5028'
 End Coordinates: ~~33° 44.3318'~~
33° 44.3318'

Total # of fish collected at station:

| Fish # | Time | Species | Fish Length (mm) | Whole fish wet weight (blotted; g) | Composite # | Notes |
|----------|-------|---------|------------------|------------------------------------|-------------|-------|
| OB-FC-03 | 14:03 | CH | 325 | 0.32 | | |

Sample Containers: _____

Analyses: _____



Fish Processing Log

OB TRAWL #1

Job: GWMA-TMDL Compliance Monitoring
 Waterbody: Outer Long Beach
 Station ID: _____
 Field Staff: Abr, Tellers, Raymond
 Collection Method: Trawl Longline Other:

Job No: 141205-01.01
 Collection Date: 09/30/14
 Collection Start Time: 1055
 Collection End Time: 1105
 Start Coordinates: 33.43.4107N / 118.12.5492
 End Coordinates: 33.43.2462N / 118.13.1908W

Total # of fish collected at station:

| Fish # | Time | Species | Fish Length (mm) | Whole fish wet weight (blotted; g) | Composite # | F=fork Notes T=total | |
|----------|------|---------|------------------|------------------------------------|-------------|----------------------|--------------------------|
| OB-CL-01 | 1105 | CL | 313f/332t | 220g | | TRAWL #1 | |
| OB-CL-02 | 1105 | CL | 311f/326t | 230g | | TRAWL #1 | |
| OB-CL-03 | 1135 | CL | 300f/317t | 170g | | TRAWL #2 | |
| OB-CL-04 | 1135 | CL | 270f/285t | 110g | | TRAWL #2 | |
| OB-CL-05 | 1135 | CL | 235f/252t | 70g | | TRAWL #2 | |
| OB-CL-06 | 1153 | CL | 268f/284t | 150g | | TRAWL #3 | |
| OB-CL-07 | 1153 | CL | 239f/253t | 120g | | ↓ | |
| OB-CL-08 | | CL | 283f/301t | 170g | | | |
| OB-CL-09 | | CL | 257f/272t | 120g | | | |
| OB-CL-10 | | CL | 265f/285t | 170g | | | |
| OB-CL-11 | | CL | 275f/292t | 160g | | | |
| OB-CL-12 | | CL | 268f/291t | 160g | | | |
| / | | | | | | | OB TRAWL #5 |
| / | | | | | | | Continue onto other pgs. |
| / | | | | | | | |
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Sample Containers: _____

Analyses: _____

OB TRAWL #2
 START TIME 1120
 END TIME 1136

COORD.
 START 33.43.7008 N
 118.13.4804 W
 END 33.44.1859 N
 118.13.4061 W

OB TRAWL #3
 START TIME 1145
 END TIME 1153

COORD.
 33.44.4469 N } START
 118.13.4805 W }
 33.44.2499 N } END
 118.13.7765 W }



Fish Processing Log OB TRAWL #4 - No target fish

Job: GWMA-TMDL Compliance Monitoring
 Waterbody: Outer Long Beach
 Station ID: _____
 Field Staff: Ahr, Fellers, Payson
 Collection Method: Trawl Longline Other: _____

Job No: 141205-01.01
 Collection Date: 09/30/14
 Collection Start Time: 1235
 Collection End Time: 1247
 Start Coordinates: 33.44.2499 N / 118.13.7765 W
 End Coordinates: 33.44.4891 N / 118.13.4332 W

Total # of fish collected at station:

| Fish # | Time | Species | Fish Length (mm) | Whole fish wet weight (blotted; g) | Composite # | Notes |
|---|------|---------|------------------|------------------------------------|-------------|---|
| _____ OB TRAWL #4 No target fish | | | | | | |
| * OB-CH-01 | 1330 | CH | 300 f | 270g | | TRAWL 05 |
| * OB-CH-02 | 1330 | CH | 330 | 480g | | f=fork t=total |
| OB-WS-01 | 1330 | WS | 167f / 187t | 80g | | Crate caught |
| OB-WS-02 | 1334 | WS | 167f / 186t | 80g | | in throat of |
| OB-WS-03 | 1330 | WS | 129f / 145t | 30g | | net. Perch |
| OB-WS-04 | | WS | 98f / 109t | 5g | | likely around |
| OB-WS-05 | | WS | 97f / 107t | 6g | | crate as |
| OB-WS-06 | | WS | 203f / 222t | 180g | | habitat. |
| OB-WS-07 | | WS | 176f / 197t | 80g | | |
| OB-WS-08 | | WS | 200f / 226t | 150g | | |
| OB-WS-09 | | WS | 181f / 203t | 110g | | END TRAWL 5 |
| OB-WS-10 | 1362 | WS | 98f / 108t | 5g | TRAWL #6 | Start TRAWL #6 |
| OB-WS-11 | 1352 | WS | 102f / 112 | 5g | | Start TIME 1405 |
| OB-WS-12 | 1352 | WS | 100f / 110 | 4g | | START 38.44-0006 118.14.5388 |
| * OB-CH-03 | 1352 | CH | 305 | 290g | | END TIME 1411. Hungon bottom |
| OB-CH-04 | 1352 | CH | 390 | 600g | | END 38.44.2117N 118.14.3922W |
| | 1415 | Net | down for repair. | | | (2) black perch, no target fish |
| | | | | | | * Re-number to acct for prior day catch |

Sample Containers:

Analyses:

NO TARGET

TRAWL #5

TRAWL #6

Time START 1320 END 1330
 COORD. START 33.44.4891 N / 118.13.4332 W
 END _____

Time START 1340 END 1352
 COORD. START 33.44.4891 N / 118.14.4880 W
 END 33.44.0000 N / 118.14.3388 W

DQO Measurements

| Project Name: <i>GWMA-TMDL Compliance Monitoring</i> | | | | Project Number: <i>141205-01.01</i> | | | |
|--|--------------|------------------------|-------------------|--|-------------------|------------------------------------|------------------------------|
| Station ID: <i>Cabrillo Pier</i> | | Time: <i>1120</i> | | Date: <i>9/29/14</i> | | | |
| Field Measurements | | | | | | | |
| Time | Fish ID | Species Identification | Enumeration | Standard Length <small>Total</small> (mm) | Fork Length (mm) | Whole fish wet weight (blotted; g) | Comments |
| <i>1120</i> | <i>WC-07</i> | <i>WC</i> | <i>R1</i> | <i>226</i> | <i>225</i> | <i>0.10</i> | |
| <i>1121</i> | ↓ | ↓ | <i>R2</i> | <i>226</i> | <i>225</i> | <i>0.11</i> | |
| <i>1122</i> | ↓ | ↓ | <i>R3</i> | <i>226</i> | <i>225</i> | <i>0.11</i> | |
| Average | | | | <i>226</i> | <i>225</i> | <i>0.106</i> | |
| Difference between max and min | | | | <i>0</i> | <i>0</i> | <i>0.01</i> | |
| RPD | | | | | | | |
| Precision | | <i>95 percent</i> | <i>90 percent</i> | <i>90 percent</i> | <i>90 percent</i> | <i>90 percent</i> | |
| DQO Met? (Y/N) ² | | | | <i>Y</i> | <i>Y</i> | <i>Y</i> | |
| Time | Fish ID | Species Identification | Enumeration | Standard Length (mm) | Fork Length (mm) | Whole fish wet weight (blotted; g) | Comments |
| <i>1154</i> | <i>WP-12</i> | <i>WP</i> | <i>R1</i> | <i>95</i> | <i>85</i> | | |
| ↓ | ↓ | ↓ | <i>R2</i> | <i>95</i> | <i>85</i> | <i>NA</i> | |
| ↓ | ↓ | ↓ | <i>R3</i> | <i>95</i> | <i>85</i> | | |
| Average | | | | <i>95</i> | <i>85</i> | | <i>Had to weigh as group</i> |
| Difference between max and min | | | | <i>0</i> | <i>0</i> | | |
| RPD | | | | | | | |
| Precision | | <i>95 percent</i> | <i>90 percent</i> | <i>90 percent</i> | <i>90 percent</i> | <i>90 percent</i> | |
| DQO Met? (Y/N) ² | | | | <i>Y</i> | <i>Y</i> | | |
| Comments: | | | | | | | |

Notes:

1. Field measurements will be made in triplicate on 5 percent of measurements to ensure project DQOs are met. Each result will be recorded along with the average of the triplicate measurements, the average of the results, and percent difference will be recorded on the field data sheet. The percent difference, as appropriate, will be computed as: $100 * (\text{largest} - \text{smallest}) / \text{average}$
2. If no, write corrective actions taken in the comments box (e.g., re-calibrated instrument, etc.) and re-measure.

DQO Measurements

| Project Name: <i>GWMA-TMDL compliance monitoring</i> | | | | Project Number: <i>141205-01.61</i> | | | |
|--|--------------|------------------------|-------------------|-------------------------------------|-------------------------|------------------------------------|--|
| Station ID: | | | Time: <i>1326</i> | | Date: <i>10-01-2014</i> | | |
| Field Measurements | | | | | | | |
| Time | Fish ID | Species Identification | Enumeration | Standard Length (mm) | Fork Length (mm) | Whole fish wet weight (blotted; g) | Comments |
| <i>1326</i> | <i>WP-08</i> | <i>WC</i> | <i>R1</i> | <i>225</i> | <i>222</i> | <i>0.12</i> | |
| ↓ | ↓ | ↓ | <i>R2</i> | <i>225</i> | <i>222</i> | <i>0.12</i> | |
| | | | <i>R3</i> | <i>225</i> | <i>222</i> | <i>0.12</i> | |
| Average | | | | <i>225</i> | <i>222</i> | <i>0.12</i> | |
| Difference between max and min | | | | <i>0</i> | <i>0</i> | <i>0</i> | |
| RPD | | | | | | | |
| Precision | | 95 percent | 90 percent | 90 percent | 90 percent | 90 percent | |
| DQO Met? (Y/N) ² | | | | <i>Y</i> | <i>Y</i> | <i>Y</i> | |
| Time | Fish ID | Species Identification | Enumeration | Standard Length (mm) | Fork Length (mm) | Whole fish wet weight (blotted; g) | Comments |
| <i>1605</i> | <i>WP-25</i> | <i>WP</i> | <i>R1</i> | <i>105</i> | <i>95</i> | | |
| ↓ | ↓ | ↓ | <i>R2</i> | <i>105</i> | <i>95</i> | <i>NA</i> | |
| | | | <i>R3</i> | <i>105</i> | <i>95</i> | | |
| Average | | | | <i>105</i> | <i>95</i> | | <i>could not get individual weight</i> |
| Difference between max and min | | | | <i>0</i> | <i>0</i> | | |
| RPD | | | | | | | |
| Precision | | 95 percent | 90 percent | 90 percent | 90 percent | 90 percent | |
| DQO Met? (Y/N) ² | | | | <i>Y</i> | <i>Y</i> | | |
| Comments: | | | | | | | |

Notes:

1. Field measurements will be made in triplicate on 5 percent of measurements to ensure project DQOs are met. Each result will be recorded along with the average of the triplicate measurements, the average of the results, and percent difference will be recorded on the field data sheet. The percent difference, as appropriate, will be computed as $100 \times (\text{largest} - \text{smallest}) / \text{average}$.
2. If no, write corrective actions taken in the comments box (e.g., re-calibrated instrument, etc.) and re-measure.

DQO Measurements

| Project Name: <u>CWMA TMDL</u> | | | | Project Number: <u>141205-01.01</u> | | | |
|-------------------------------------|-----------------|------------------------|-------------------|-------------------------------------|-------------------|------------------------------------|--|
| Station ID: <u>OUTER LONG BEACH</u> | | Time: <u>1330</u> | | Date: <u>09/30/14</u> | | | |
| Field Measurements | | | | | | | |
| Time | Fish ID | Species Identification | Enumeration | Standard Length (mm) | Fork Length (mm) | Whole fish wet weight (blotted; g) | Comments |
| <u>1330</u> | <u>CB-WS-07</u> | <u>WS</u> | | <u>155</u> | <u>176</u> | <u>80g</u> | Recalibrated?; reweighed next measurement was 80 g |
| <u>1</u> | <u>1</u> | <u>WS</u> | | <u>155</u> | <u>176</u> | <u>80g</u> | |
| | | <u>WS</u> | | <u>154</u> | <u>176</u> | <u>180g</u> | |
| Average | | <u>—</u> | | <u>154.66</u> | <u>176</u> | <u>86.66</u> | |
| Difference between max and min | | <u>—</u> | | <u>1.0</u> | <u>0</u> | <u>20.0</u> | |
| RPD | | <u>—</u> | | <u>0.65</u> | <u>0</u> | <u>20</u> | |
| Precision | | <u>95 percent</u> | <u>90 percent</u> | <u>90 percent</u> | <u>90 percent</u> | <u>90 percent</u> | |
| DQO Met? (Y/N) ² | | <u>N/A</u> | | <u>Y</u> | <u>Y</u> | <u>N</u> | |
| Time | Fish ID | Species Identification | Enumeration | Standard Length (mm) | Fork Length (mm) | Whole fish wet weight (blotted; g) | Comments |
| | | | | | | | |
| | | | | | | | |
| Average | | | | | | | |
| Difference between max and min | | | | | | | |
| RPD | | | | | | | |
| Precision | | <u>95 percent</u> | <u>90 percent</u> | <u>90 percent</u> | <u>90 percent</u> | <u>90 percent</u> | |
| DQO Met? (Y/N) ² | | | | | | | |
| Comments: | | | | | | | |

Notes:

1. Field measurements will be made in triplicate on 5 percent of measurements to ensure project DQOs are met. Each result will be recorded along with the average of triplicate measurements, the average of the results, and percent difference will be recorded on the field data sheet. The percent difference, as appropriate, will be computed as $100 * (\text{largest} - \text{smallest}) / \text{average}$.
2. If no, write corrective actions taken in the comments box (e.g., re-calibrated instrument, etc.) and re-measure.

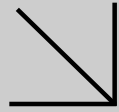
APPENDIX B
CHEMISTRY LABORATORY REPORTS

APPENDIX B-1

WATER SAMPLE CHEMISTRY REPORTS



Calscience



WORK ORDER NUMBER: 15-02-1894

The difference is service



AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: ANCHOR QEA, LLC

Client Project Name: GWMA - TMDL Compliance Monitoring

Attention: Andy Martin
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Approved for release on 03/16/2015 by:
Danielle Gonsman
Project Manager

ResultLink ▶

Email your PM ▶



Eurofins Calscience, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

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Client Project Name: GWMA - TMDL Compliance Monitoring
 Work Order Number: 15-02-1894

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Work Order Narrative

Work Order: 15-02-1894Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 02/25/15. They were assigned to Work Order 15-02-1894.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of ≤ 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.



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Sample Summary

| | |
|------------------------------|---|
| Client: ANCHOR QEA, LLC | Work Order: 15-02-1894 |
| 27201 Puerta Real, Suite 350 | Project Name: GWMA - TMDL Compliance Monitoring |
| Mission Viejo, CA 92691-8306 | PO Number: |
| | Date/Time Received: 02/25/15 13:30 |
| | Number of Containers: 87 |

Attn: Andy Martin

| Sample Identification | Lab Number | Collection Date and Time | Number of Containers | Matrix |
|-------------------------------|---------------|--------------------------|----------------------|-----------|
| CS-RW-01-G-S-20150224 | 15-02-1894-1 | 02/24/15 08:57 | 8 | Sea Water |
| CS-RW-01-G-M-20150224 | 15-02-1894-2 | 02/24/15 08:57 | 1 | Sea Water |
| CS-RW-01-G-B-20150224 | 15-02-1894-3 | 02/24/15 08:58 | 1 | Sea Water |
| CS-RW-1001-G-S-20150224 | 15-02-1894-4 | 02/24/15 08:57 | 1 | Sea Water |
| IA-RW-02-G-S-20150224 | 15-02-1894-5 | 02/24/15 09:28 | 8 | Sea Water |
| IA-RW-02-G-M-20150224 | 15-02-1894-6 | 02/24/15 09:32 | 1 | Sea Water |
| IA-RW-02-G-B-20150224 | 15-02-1894-7 | 02/24/15 09:34 | 1 | Sea Water |
| IA-RW-03-G-S-20150224 | 15-02-1894-8 | 02/24/15 10:12 | 8 | Sea Water |
| IA-RW-03-G-M-20150224 | 15-02-1894-9 | 02/24/15 10:13 | 1 | Sea Water |
| IA-RW-03-G-B-20150224 | 15-02-1894-10 | 02/24/15 10:16 | 1 | Sea Water |
| IA-RW-04-G-S-20150224 | 15-02-1894-11 | 02/24/15 10:45 | 8 | Sea Water |
| IA-RW-04-G-M-20150224 | 15-02-1894-12 | 02/24/15 10:47 | 1 | Sea Water |
| IA-RW-04-G-B-20150224 | 15-02-1894-13 | 02/24/15 10:49 | 1 | Sea Water |
| IA-RW-06-G-S-20150224 | 15-02-1894-14 | 02/24/15 11:25 | 8 | Sea Water |
| IA-RW-06-G-M-20150224 | 15-02-1894-15 | 02/24/15 11:26 | 1 | Sea Water |
| IA-RW-06-G-B-20150224 | 15-02-1894-16 | 02/24/15 11:28 | 1 | Sea Water |
| IA-RW-05-G-S-20150224 | 15-02-1894-17 | 02/24/15 12:39 | 8 | Sea Water |
| IA-RW-05-G-M-20150224 | 15-02-1894-18 | 02/24/15 12:40 | 1 | Sea Water |
| IA-RW-05-G-B-20150224 | 15-02-1894-19 | 02/24/15 12:42 | 1 | Sea Water |
| FH-RW-07-G-S-20150224 | 15-02-1894-20 | 02/24/15 13:11 | 8 | Sea Water |
| FH-RW-07-G-M-20150224 | 15-02-1894-21 | 02/24/15 13:12 | 1 | Sea Water |
| FH-RW-07-G-B-20150224 | 15-02-1894-22 | 02/24/15 13:14 | 1 | Sea Water |
| CM-RW-10-G-S-20150224 | 15-02-1894-23 | 02/24/15 13:48 | 8 | Sea Water |
| CM-RW-10-G-M-20150224 | 15-02-1894-24 | 02/24/15 13:49 | 2 | Sea Water |
| CM-RW-10-G-B-20150224 | 15-02-1894-25 | 02/24/15 13:51 | 1 | Sea Water |
| FB-20150224 | 15-02-1894-26 | 02/24/15 14:43 | 4 | Sea Water |
| CM-RW-10-G-M-20150224 LAB DUP | 15-02-1894-27 | 02/24/15 13:49 | 1 | Sea Water |


 Return to Contents



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Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 02/25/15
Work Order: 15-02-1894
Preparation: N/A
Method: SM 2540 D
Units: mg/L

Project: GWMA - TMDL Compliance Monitoring

Page 1 of 5

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| CS-RW-01-G-S-20150224 | 15-02-1894-1-H | 02/24/15 08:57 | Sea Water | N/A | 03/02/15 | 03/02/15 18:00 | F0302TSSL4 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | ND | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| CS-RW-01-G-M-20150224 | 15-02-1894-2-A | 02/24/15 08:57 | Sea Water | N/A | 03/02/15 | 03/02/15 18:00 | F0302TSSL4 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 1.9 | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| CS-RW-01-G-B-20150224 | 15-02-1894-3-A | 02/24/15 08:58 | Sea Water | N/A | 03/02/15 | 03/02/15 18:00 | F0302TSSL4 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 2.8 | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-------------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| CS-RW-1001-G-S-20150224 | 15-02-1894-4-A | 02/24/15 08:57 | Sea Water | N/A | 03/02/15 | 03/02/15 18:00 | F0302TSSL4 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 3.0 | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-02-G-S-20150224 | 15-02-1894-5-H | 02/24/15 09:28 | Sea Water | N/A | 03/02/15 | 03/02/15 18:00 | F0302TSSL4 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 1.9 | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-02-G-M-20150224 | 15-02-1894-6-A | 02/24/15 09:32 | Sea Water | N/A | 03/02/15 | 03/02/15 18:00 | F0302TSSL4 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 1.8 | 1.0 | 0.95 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 02/25/15
Work Order: 15-02-1894
Preparation: N/A
Method: SM 2540 D
Units: mg/L

Project: GWMA - TMDL Compliance Monitoring

Page 2 of 5

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-02-G-B-20150224 | 15-02-1894-7-A | 02/24/15 09:34 | Sea Water | N/A | 03/02/15 | 03/02/15 18:00 | F0302TSSL4 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 1.7 | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-03-G-S-20150224 | 15-02-1894-8-H | 02/24/15 10:12 | Sea Water | N/A | 03/02/15 | 03/02/15 18:00 | F0302TSSL4 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 1.7 | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-03-G-M-20150224 | 15-02-1894-9-A | 02/24/15 10:13 | Sea Water | N/A | 03/02/15 | 03/02/15 18:00 | F0302TSSL4 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 5.2 | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-03-G-B-20150224 | 15-02-1894-10-A | 02/24/15 10:16 | Sea Water | N/A | 03/02/15 | 03/02/15 18:00 | F0302TSSL4 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 2.7 | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-04-G-S-20150224 | 15-02-1894-11-E | 02/24/15 10:45 | Sea Water | N/A | 03/02/15 | 03/02/15 18:00 | F0302TSSL4 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 1.4 | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-04-G-M-20150224 | 15-02-1894-12-A | 02/24/15 10:47 | Sea Water | N/A | 03/02/15 | 03/02/15 18:00 | F0302TSSL4 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 2.9 | 1.0 | 0.95 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 02/25/15
Work Order: 15-02-1894
Preparation: N/A
Method: SM 2540 D
Units: mg/L

Project: GWMA - TMDL Compliance Monitoring

Page 3 of 5

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-04-G-B-20150224 | 15-02-1894-13-A | 02/24/15 10:49 | Sea Water | N/A | 03/02/15 | 03/02/15 18:00 | F0302TSSL4 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 2.1 | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-06-G-S-20150224 | 15-02-1894-14-E | 02/24/15 11:25 | Sea Water | N/A | 03/02/15 | 03/02/15 18:00 | F0302TSSL4 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 1.0 | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-06-G-M-20150224 | 15-02-1894-15-A | 02/24/15 11:26 | Sea Water | N/A | 03/02/15 | 03/02/15 18:00 | F0302TSSL4 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | ND | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-06-G-B-20150224 | 15-02-1894-16-A | 02/24/15 11:28 | Sea Water | N/A | 03/02/15 | 03/02/15 18:00 | F0302TSSL4 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | ND | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-05-G-S-20150224 | 15-02-1894-17-H | 02/24/15 12:39 | Sea Water | N/A | 03/02/15 | 03/02/15 18:00 | F0302TSSL4 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 2.0 | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-05-G-M-20150224 | 15-02-1894-18-A | 02/24/15 12:40 | Sea Water | N/A | 03/02/15 | 03/02/15 18:00 | F0302TSSL4 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 2.9 | 1.0 | 0.95 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 02/25/15
Work Order: 15-02-1894
Preparation: N/A
Method: SM 2540 D
Units: mg/L

Project: GWMA - TMDL Compliance Monitoring

Page 4 of 5

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-05-G-B-20150224 | 15-02-1894-19-A | 02/24/15 12:42 | Sea Water | N/A | 03/02/15 | 03/02/15 18:00 | F0302TSSL4 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 3.2 | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| FH-RW-07-G-S-20150224 | 15-02-1894-20-H | 02/24/15 13:11 | Sea Water | N/A | 03/02/15 | 03/02/15 18:00 | F0302TSSL4 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 3.6 | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| FH-RW-07-G-M-20150224 | 15-02-1894-21-A | 02/24/15 13:12 | Sea Water | N/A | 03/02/15 | 03/02/15 22:00 | F0302TSSL5 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 4.3 | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| FH-RW-07-G-B-20150224 | 15-02-1894-22-A | 02/24/15 13:14 | Sea Water | N/A | 03/02/15 | 03/02/15 22:00 | F0302TSSL5 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 8.5 | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| CM-RW-10-G-S-20150224 | 15-02-1894-23-H | 02/24/15 13:48 | Sea Water | N/A | 03/02/15 | 03/02/15 22:00 | F0302TSSL5 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | ND | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| CM-RW-10-G-M-20150224 | 15-02-1894-24-A | 02/24/15 13:49 | Sea Water | N/A | 03/02/15 | 03/02/15 22:00 | F0302TSSL5 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | ND | 1.0 | 0.95 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 02/25/15
 Work Order: 15-02-1894
 Preparation: N/A
 Method: SM 2540 D
 Units: mg/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| CM-RW-10-G-B-20150224 | 15-02-1894-25-A | 02/24/15 13:51 | Sea Water | N/A | 03/02/15 | 03/02/15 22:00 | F0302TSSL5 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 14 | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-------------------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| CM-RW-10-G-M-20150224 LAB DUP | 15-02-1894-27-B | 02/24/15 13:49 | Sea Water | N/A | 03/02/15 | 03/02/15 22:00 | F0302TSSL5 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | ND | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|---------|------------|---------------|--------------------|-------------|
| Method Blank | 099-09-010-7091 | N/A | Aqueous | N/A | 03/02/15 | 03/02/15 18:00 | F0302TSSL4 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | ND | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|---------|------------|---------------|--------------------|-------------|
| Method Blank | 099-09-010-7074 | N/A | Aqueous | N/A | 03/02/15 | 03/02/15 22:00 | F0302TSSL5 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | ND | 1.0 | 0.95 | 1.00 | |

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 02/25/15
Work Order: 15-02-1894
Preparation: EPA 1631E Total
Method: EPA 1631E
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

Page 1 of 2

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| CS-RW-01-G-S-20150224 | 15-02-1894-1-A | 02/24/15 08:57 | Sea Water | Hg/AF 1 | 03/06/15 | 03/06/15 00:00 | 150306L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|---------|----------|----------|------|------------|
| Mercury | 0.00739 | 0.000500 | 0.000113 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-02-G-S-20150224 | 15-02-1894-5-A | 02/24/15 09:28 | Sea Water | Hg/AF 1 | 03/06/15 | 03/06/15 00:00 | 150306L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|---------|----------|----------|------|------------|
| Mercury | 0.00273 | 0.000500 | 0.000113 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-03-G-S-20150224 | 15-02-1894-8-B | 02/24/15 10:12 | Sea Water | Hg/AF 1 | 03/06/15 | 03/06/15 00:00 | 150306L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|---------|----------|----------|------|------------|
| Mercury | 0.00144 | 0.000500 | 0.000113 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-04-G-S-20150224 | 15-02-1894-11-B | 02/24/15 10:45 | Sea Water | Hg/AF 1 | 03/06/15 | 03/06/15 00:00 | 150306L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|---------|----------|----------|------|------------|
| Mercury | 0.00374 | 0.000500 | 0.000113 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-06-G-S-20150224 | 15-02-1894-14-A | 02/24/15 11:25 | Sea Water | Hg/AF 1 | 03/06/15 | 03/06/15 00:00 | 150306L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|---------|----------|----------|------|------------|
| Mercury | 0.00335 | 0.000500 | 0.000113 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-05-G-S-20150224 | 15-02-1894-17-A | 02/24/15 12:39 | Sea Water | Hg/AF 1 | 03/06/15 | 03/06/15 00:00 | 150306L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|---------|----------|----------|------|------------|
| Mercury | 0.00360 | 0.000500 | 0.000113 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 02/25/15
Work Order: 15-02-1894
Preparation: EPA 1631E Total
Method: EPA 1631E
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

Page 2 of 2

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| FH-RW-07-G-S-20150224 | 15-02-1894-20-A | 02/24/15 13:11 | Sea Water | Hg/AF 1 | 03/06/15 | 03/06/15 00:00 | 150306L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|----------|----------|------|------------|
| Mercury | 0.0136 | 0.000500 | 0.000113 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| CM-RW-10-G-S-20150224 | 15-02-1894-23-B | 02/24/15 13:48 | Sea Water | Hg/AF 1 | 03/06/15 | 03/06/15 00:00 | 150306L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|---------|----------|----------|------|------------|
| Mercury | 0.00138 | 0.000500 | 0.000113 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| FB-20150224 | 15-02-1894-26-A | 02/24/15 14:43 | Sea Water | Hg/AF 1 | 03/06/15 | 03/06/15 00:00 | 150306L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|---------|----------|----------|------|------------|
| Mercury | 0.00132 | 0.000500 | 0.000113 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|---------|------------|---------------|--------------------|-------------|
| Method Blank | 099-15-224-78 | N/A | Aqueous | Hg/AF 1 | 03/06/15 | 03/06/15 00:00 | 150306L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|----------|----------|------|------------|
| Mercury | ND | 0.000500 | 0.000113 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 02/25/15
Work Order: 15-02-1894
Preparation: Filtered
Method: EPA 1631E
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

Page 1 of 2

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| CS-RW-01-G-S-20150224 | 15-02-1894-1-B | 02/24/15 08:57 | Sea Water | Hg/AF 1 | 03/06/15 | 03/06/15 00:00 | 150306L01F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|---------|----------|----------|------|------------|
| Mercury | 0.00112 | 0.000500 | 0.000113 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-02-G-S-20150224 | 15-02-1894-5-B | 02/24/15 09:28 | Sea Water | Hg/AF 1 | 03/06/15 | 03/06/15 00:00 | 150306L01F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|----------|----------|----------|------|------------|
| Mercury | 0.000785 | 0.000500 | 0.000113 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-03-G-S-20150224 | 15-02-1894-8-A | 02/24/15 10:12 | Sea Water | Hg/AF 1 | 03/06/15 | 03/06/15 00:00 | 150306L01F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|---------|----------|----------|------|------------|
| Mercury | 0.00103 | 0.000500 | 0.000113 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-04-G-S-20150224 | 15-02-1894-11-A | 02/24/15 10:45 | Sea Water | Hg/AF 1 | 03/06/15 | 03/06/15 00:00 | 150306L01F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|----------|----------|----------|------|------------|
| Mercury | 0.000675 | 0.000500 | 0.000113 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-06-G-S-20150224 | 15-02-1894-14-B | 02/24/15 11:25 | Sea Water | Hg/AF 1 | 03/06/15 | 03/06/15 00:00 | 150306L01F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|----------|----------|----------|------|------------|
| Mercury | 0.000448 | 0.000500 | 0.000113 | 1.00 | J |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-05-G-S-20150224 | 15-02-1894-17-B | 02/24/15 12:39 | Sea Water | Hg/AF 1 | 03/06/15 | 03/06/15 00:00 | 150306L01F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|----------|----------|----------|------|------------|
| Mercury | 0.000741 | 0.000500 | 0.000113 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 02/25/15
Work Order: 15-02-1894
Preparation: Filtered
Method: EPA 1631E
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

Page 2 of 2

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| FH-RW-07-G-S-20150224 | 15-02-1894-20-B | 02/24/15 13:11 | Sea Water | Hg/AF 1 | 03/06/15 | 03/06/15 00:00 | 150306L01F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|---------|----------|----------|------|------------|
| Mercury | 0.00113 | 0.000500 | 0.000113 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| CM-RW-10-G-S-20150224 | 15-02-1894-23-A | 02/24/15 13:48 | Sea Water | Hg/AF 1 | 03/06/15 | 03/06/15 00:00 | 150306L01F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|----------|----------|----------|------|------------|
| Mercury | 0.000884 | 0.000500 | 0.000113 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| FB-20150224 | 15-02-1894-26-B | 02/24/15 14:43 | Sea Water | Hg/AF 1 | 03/06/15 | 03/06/15 00:00 | 150306L01F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|----------|----------|------|------------|
| Mercury | ND | 0.000500 | 0.000113 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|---------|------------|---------------|--------------------|-------------|
| Method Blank | 099-15-226-60 | N/A | Aqueous | Hg/AF 1 | 03/06/15 | 03/06/15 00:00 | 150306L01F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|----------|----------|------|------------|
| Mercury | ND | 0.000500 | 0.000113 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 02/25/15
Work Order: 15-02-1894
Preparation: EPA 3005A Total
Method: EPA 1640
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| CS-RW-01-G-S-20150224 | 15-02-1894-1-D | 02/24/15 08:57 | Sea Water | ICP/MS 05 | 03/05/15 | 03/06/15 04:09 | 150305L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0978 | 0.0300 | 0.00567 | 1.00 | B |
| Chromium | 0.678 | 0.500 | 0.164 | 1.00 | |
| Copper | 6.41 | 0.0300 | 0.00898 | 1.00 | B |
| Lead | 1.23 | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 42.8 | 0.500 | 0.0736 | 1.00 | B |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-02-G-S-20150224 | 15-02-1894-5-D | 02/24/15 09:28 | Sea Water | ICP/MS 05 | 03/05/15 | 03/06/15 03:13 | 150305L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0702 | 0.0300 | 0.00567 | 1.00 | B |
| Chromium | 0.262 | 0.500 | 0.164 | 1.00 | J |
| Copper | 3.78 | 0.0300 | 0.00898 | 1.00 | B |
| Lead | 0.598 | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 18.6 | 0.500 | 0.0736 | 1.00 | B |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-03-G-S-20150224 | 15-02-1894-8-D | 02/24/15 10:12 | Sea Water | ICP/MS 05 | 03/05/15 | 03/06/15 03:21 | 150305L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0609 | 0.0300 | 0.00567 | 1.00 | B |
| Chromium | ND | 0.500 | 0.164 | 1.00 | |
| Copper | 3.28 | 0.0300 | 0.00898 | 1.00 | B |
| Lead | 0.236 | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 9.57 | 0.500 | 0.0736 | 1.00 | B |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 02/25/15
Work Order: 15-02-1894
Preparation: EPA 3005A Total
Method: EPA 1640
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-04-G-S-20150224 | 15-02-1894-11-D | 02/24/15 10:45 | Sea Water | ICP/MS 05 | 03/05/15 | 03/06/15 03:29 | 150305L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0599 | 0.0300 | 0.00567 | 1.00 | B |
| Chromium | ND | 0.500 | 0.164 | 1.00 | |
| Copper | 2.79 | 0.0300 | 0.00898 | 1.00 | B |
| Lead | 0.278 | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 9.69 | 0.500 | 0.0736 | 1.00 | B |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-06-G-S-20150224 | 15-02-1894-14-D | 02/24/15 11:25 | Sea Water | ICP/MS 05 | 03/05/15 | 03/06/15 03:37 | 150305L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0510 | 0.0300 | 0.00567 | 1.00 | B |
| Chromium | ND | 0.500 | 0.164 | 1.00 | |
| Copper | 2.08 | 0.0300 | 0.00898 | 1.00 | B |
| Lead | 0.180 | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 5.26 | 0.500 | 0.0736 | 1.00 | B |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-05-G-S-20150224 | 15-02-1894-17-D | 02/24/15 12:39 | Sea Water | ICP/MS 05 | 03/05/15 | 03/06/15 03:45 | 150305L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0469 | 0.0300 | 0.00567 | 1.00 | B |
| Chromium | 0.201 | 0.500 | 0.164 | 1.00 | J |
| Copper | 2.11 | 0.0300 | 0.00898 | 1.00 | B |
| Lead | 0.186 | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 4.94 | 0.500 | 0.0736 | 1.00 | B |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 02/25/15
Work Order: 15-02-1894
Preparation: EPA 3005A Total
Method: EPA 1640
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

Page 3 of 4

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| FH-RW-07-G-S-20150224 | 15-02-1894-20-D | 02/24/15 13:11 | Sea Water | ICP/MS 05 | 03/05/15 | 03/06/15 03:53 | 150305L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0677 | 0.0300 | 0.00567 | 1.00 | B |
| Chromium | 0.258 | 0.500 | 0.164 | 1.00 | J |
| Copper | 5.22 | 0.0300 | 0.00898 | 1.00 | B |
| Lead | 0.651 | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 12.1 | 0.500 | 0.0736 | 1.00 | B |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| CM-RW-10-G-S-20150224 | 15-02-1894-23-D | 02/24/15 13:48 | Sea Water | ICP/MS 05 | 03/05/15 | 03/06/15 04:01 | 150305L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0758 | 0.0300 | 0.00567 | 1.00 | B |
| Chromium | ND | 0.500 | 0.164 | 1.00 | |
| Copper | 9.30 | 0.0300 | 0.00898 | 1.00 | B |
| Lead | 0.101 | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 29.3 | 0.500 | 0.0736 | 1.00 | B |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| FB-20150224 | 15-02-1894-26-D | 02/24/15 14:43 | Sea Water | ICP/MS 05 | 03/05/15 | 03/06/15 03:05 | 150305L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|---------|--------|---------|------|------------|
| Cadmium | 0.00682 | 0.0300 | 0.00567 | 1.00 | B,J |
| Chromium | ND | 0.500 | 0.164 | 1.00 | |
| Copper | 2.09 | 0.0300 | 0.00898 | 1.00 | B |
| Lead | ND | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 1.06 | 0.500 | 0.0736 | 1.00 | B |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 02/25/15
Work Order: 15-02-1894
Preparation: EPA 3005A Total
Method: EPA 1640
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|---------|------------|---------------|--------------------|-------------|
| Method Blank | 099-13-067-495 | N/A | Aqueous | ICP/MS 05 | 03/05/15 | 03/05/15 18:09 | 150305L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0166 | 0.0300 | 0.00567 | 1.00 | J |
| Chromium | ND | 0.500 | 0.164 | 1.00 | |
| Copper | 0.0266 | 0.0300 | 0.00898 | 1.00 | J |
| Lead | ND | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 0.250 | 0.500 | 0.0736 | 1.00 | J |


 Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 02/25/15
Work Order: 15-02-1894
Preparation: EPA 3005A Filt.
Method: EPA 1640
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| CS-RW-01-G-S-20150224 | 15-02-1894-1-C | 02/24/15 08:57 | Sea Water | ICP/MS 05 | 03/05/15 | 03/06/15 01:21 | 150305L01F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.101 | 0.0300 | 0.00567 | 1.00 | B |
| Chromium | 0.284 | 0.500 | 0.164 | 1.00 | J |
| Copper | 4.62 | 0.0300 | 0.00898 | 1.00 | B |
| Lead | 0.0948 | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 38.7 | 0.500 | 0.0736 | 1.00 | B |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-02-G-S-20150224 | 15-02-1894-5-C | 02/24/15 09:28 | Sea Water | ICP/MS 05 | 03/05/15 | 03/06/15 01:29 | 150305L01F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0725 | 0.0300 | 0.00567 | 1.00 | B |
| Chromium | ND | 0.500 | 0.164 | 1.00 | |
| Copper | 2.69 | 0.0300 | 0.00898 | 1.00 | B |
| Lead | 0.0514 | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 17.6 | 0.500 | 0.0736 | 1.00 | B |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-03-G-S-20150224 | 15-02-1894-8-C | 02/24/15 10:12 | Sea Water | ICP/MS 05 | 03/05/15 | 03/06/15 01:37 | 150305L01F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0674 | 0.0300 | 0.00567 | 1.00 | B |
| Chromium | ND | 0.500 | 0.164 | 1.00 | |
| Copper | 2.38 | 0.0300 | 0.00898 | 1.00 | B |
| Lead | 0.0572 | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 9.55 | 0.500 | 0.0736 | 1.00 | B |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 02/25/15
Work Order: 15-02-1894
Preparation: EPA 3005A Filt.
Method: EPA 1640
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-04-G-S-20150224 | 15-02-1894-11-C | 02/24/15 10:45 | Sea Water | ICP/MS 05 | 03/05/15 | 03/06/15 01:45 | 150305L01F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0657 | 0.0300 | 0.00567 | 1.00 | B |
| Chromium | ND | 0.500 | 0.164 | 1.00 | |
| Copper | 2.00 | 0.0300 | 0.00898 | 1.00 | B |
| Lead | 0.0481 | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 8.91 | 0.500 | 0.0736 | 1.00 | B |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-06-G-S-20150224 | 15-02-1894-14-C | 02/24/15 11:25 | Sea Water | ICP/MS 05 | 03/05/15 | 03/06/15 01:53 | 150305L01F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0556 | 0.0300 | 0.00567 | 1.00 | B |
| Chromium | ND | 0.500 | 0.164 | 1.00 | |
| Copper | 1.43 | 0.0300 | 0.00898 | 1.00 | B |
| Lead | 0.0425 | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 5.65 | 0.500 | 0.0736 | 1.00 | B |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-05-G-S-20150224 | 15-02-1894-17-C | 02/24/15 12:39 | Sea Water | ICP/MS 05 | 03/05/15 | 03/06/15 02:01 | 150305L01F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0494 | 0.0300 | 0.00567 | 1.00 | B |
| Chromium | ND | 0.500 | 0.164 | 1.00 | |
| Copper | 1.32 | 0.0300 | 0.00898 | 1.00 | B |
| Lead | 0.0298 | 0.0300 | 0.0135 | 1.00 | J |
| Zinc | 5.14 | 0.500 | 0.0736 | 1.00 | B |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 02/25/15
Work Order: 15-02-1894
Preparation: EPA 3005A Filt.
Method: EPA 1640
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

Page 3 of 4

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| FH-RW-07-G-S-20150224 | 15-02-1894-20-C | 02/24/15 13:11 | Sea Water | ICP/MS 05 | 03/05/15 | 03/06/15 02:09 | 150305L01F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0718 | 0.0300 | 0.00567 | 1.00 | B |
| Chromium | ND | 0.500 | 0.164 | 1.00 | |
| Copper | 2.77 | 0.0300 | 0.00898 | 1.00 | B |
| Lead | 0.0694 | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 10.8 | 0.500 | 0.0736 | 1.00 | B |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| CM-RW-10-G-S-20150224 | 15-02-1894-23-C | 02/24/15 13:48 | Sea Water | ICP/MS 05 | 03/05/15 | 03/06/15 02:17 | 150305L01F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0815 | 0.0300 | 0.00567 | 1.00 | B |
| Chromium | ND | 0.500 | 0.164 | 1.00 | |
| Copper | 7.55 | 0.0300 | 0.00898 | 1.00 | B |
| Lead | 0.0325 | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 29.1 | 0.500 | 0.0736 | 1.00 | B |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| FB-20150224 | 15-02-1894-26-C | 02/24/15 14:43 | Sea Water | ICP/MS 05 | 03/05/15 | 03/11/15 16:56 | 150305L01F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | ND | 0.0300 | 0.00567 | 1.00 | |
| Chromium | ND | 0.500 | 0.164 | 1.00 | |
| Copper | 0.0531 | 0.0300 | 0.00898 | 1.00 | B |
| Lead | ND | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 0.257 | 0.500 | 0.0736 | 1.00 | B,J |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 02/25/15
Work Order: 15-02-1894
Preparation: EPA 3005A Filt.
Method: EPA 1640
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

Page 4 of 4

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-----------------------|---------------------|----------------|------------------|-----------------|---------------------------|-------------------|
| Method Blank | 099-15-823-134 | N/A | Aqueous | ICP/MS 05 | 03/05/15 | 03/05/15 18:17 | 150305L01F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|---------------|-----------|------------|-----------|-------------------|
| Cadmium | 0.0167 | 0.0300 | 0.00567 | 1.00 | J |
| Chromium | ND | 0.500 | 0.164 | 1.00 | |
| Copper | 0.0262 | 0.0300 | 0.00898 | 1.00 | J |
| Lead | ND | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 0.249 | 0.500 | 0.0736 | 1.00 | J |

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 02/25/15
Work Order: 15-02-1894
Preparation: EPA 3510C
Method: EPA 8081A
Units: ng/L

Project: GWMA - TMDL Compliance Monitoring

Page 1 of 9

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| CS-RW-01-G-S-20150224 | 15-02-1894-1-F | 02/24/15 08:57 | Sea Water | GC 44 | 03/02/15 | 03/06/15 21:08 | 150302L19 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------------------------|----------|----------------|------------|------|------------|
| 2,4'-DDD | ND | 1.9 | 0.57 | 1.00 | |
| 2,4'-DDE | ND | 1.9 | 0.47 | 1.00 | |
| 2,4'-DDT | ND | 1.9 | 0.67 | 1.00 | |
| 4,4'-DDD | ND | 1.9 | 0.53 | 1.00 | |
| 4,4'-DDE | ND | 1.9 | 0.46 | 1.00 | |
| 4,4'-DDT | ND | 1.9 | 0.54 | 1.00 | |
| Alpha Chlordane | ND | 1.9 | 0.48 | 1.00 | |
| Cis-nonachlor | ND | 1.9 | 0.49 | 1.00 | |
| Dieldrin | ND | 1.9 | 0.53 | 1.00 | |
| Gamma Chlordane | ND | 1.9 | 0.47 | 1.00 | |
| Oxychlordane | ND | 1.9 | 0.61 | 1.00 | |
| Toxaphene | ND | 24 | 8.0 | 1.00 | |
| Trans-nonachlor | ND | 1.9 | 0.54 | 1.00 | |
| Surrogate | Rec. (%) | Control Limits | Qualifiers | | |
| Decachlorobiphenyl | 152 | 50-150 | 2,7 | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 141 | 50-150 | | | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 02/25/15
Work Order: 15-02-1894
Preparation: EPA 3510C
Method: EPA 8081A
Units: ng/L

Project: GWMA - TMDL Compliance Monitoring

Page 2 of 9

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-02-G-S-20150224 | 15-02-1894-5-F | 02/24/15 09:28 | Sea Water | GC 44 | 03/02/15 | 03/06/15 21:23 | 150302L19 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------------------------|----------|----------------|------------|------|------------|
| 2,4'-DDD | ND | 1.9 | 0.56 | 1.00 | |
| 2,4'-DDE | ND | 1.9 | 0.47 | 1.00 | |
| 2,4'-DDT | ND | 1.9 | 0.66 | 1.00 | |
| 4,4'-DDD | ND | 1.9 | 0.53 | 1.00 | |
| 4,4'-DDE | ND | 1.9 | 0.46 | 1.00 | |
| 4,4'-DDT | ND | 1.9 | 0.53 | 1.00 | |
| Alpha Chlordane | ND | 1.9 | 0.47 | 1.00 | |
| Cis-nonachlor | ND | 1.9 | 0.48 | 1.00 | |
| Dieldrin | ND | 1.9 | 0.53 | 1.00 | |
| Gamma Chlordane | ND | 1.9 | 0.47 | 1.00 | |
| Oxychlordane | ND | 1.9 | 0.60 | 1.00 | |
| Toxaphene | ND | 24 | 7.9 | 1.00 | |
| Trans-nonachlor | ND | 1.9 | 0.54 | 1.00 | |
| Surrogate | Rec. (%) | Control Limits | Qualifiers | | |
| Decachlorobiphenyl | 153 | 50-150 | 2,7 | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 150 | 50-150 | | | |

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 02/25/15
Work Order: 15-02-1894
Preparation: EPA 3510C
Method: EPA 8081A
Units: ng/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-03-G-S-20150224 | 15-02-1894-8-G | 02/24/15 10:12 | Sea Water | GC 44 | 03/02/15 | 03/06/15 21:37 | 150302L19 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------------------------|----------|----------------|------------|------|------------|
| 2,4'-DDD | ND | 1.9 | 0.56 | 1.00 | |
| 2,4'-DDE | ND | 1.9 | 0.47 | 1.00 | |
| 2,4'-DDT | ND | 1.9 | 0.66 | 1.00 | |
| 4,4'-DDD | ND | 1.9 | 0.53 | 1.00 | |
| 4,4'-DDE | ND | 1.9 | 0.46 | 1.00 | |
| 4,4'-DDT | ND | 1.9 | 0.53 | 1.00 | |
| Alpha Chlordane | ND | 1.9 | 0.47 | 1.00 | |
| Cis-nonachlor | ND | 1.9 | 0.48 | 1.00 | |
| Dieldrin | ND | 1.9 | 0.53 | 1.00 | |
| Gamma Chlordane | ND | 1.9 | 0.47 | 1.00 | |
| Oxychlordane | ND | 1.9 | 0.60 | 1.00 | |
| Toxaphene | ND | 24 | 7.9 | 1.00 | |
| Trans-nonachlor | ND | 1.9 | 0.54 | 1.00 | |
| Surrogate | Rec. (%) | Control Limits | Qualifiers | | |
| Decachlorobiphenyl | 148 | 50-150 | | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 140 | 50-150 | | | |

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 02/25/15
Work Order: 15-02-1894
Preparation: EPA 3510C
Method: EPA 8081A
Units: ng/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-04-G-S-20150224 | 15-02-1894-11-G | 02/24/15 10:45 | Sea Water | GC 44 | 03/02/15 | 03/06/15 21:51 | 150302L19 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------------------------|----------|----------------|------------|------|------------|
| 2,4'-DDD | ND | 1.9 | 0.57 | 1.00 | |
| 2,4'-DDE | ND | 1.9 | 0.47 | 1.00 | |
| 2,4'-DDT | ND | 1.9 | 0.67 | 1.00 | |
| 4,4'-DDD | ND | 1.9 | 0.53 | 1.00 | |
| 4,4'-DDE | ND | 1.9 | 0.46 | 1.00 | |
| 4,4'-DDT | ND | 1.9 | 0.54 | 1.00 | |
| Alpha Chlordane | ND | 1.9 | 0.48 | 1.00 | |
| Cis-nonachlor | ND | 1.9 | 0.49 | 1.00 | |
| Dieldrin | ND | 1.9 | 0.53 | 1.00 | |
| Gamma Chlordane | ND | 1.9 | 0.47 | 1.00 | |
| Oxychlordane | ND | 1.9 | 0.61 | 1.00 | |
| Toxaphene | ND | 24 | 8.0 | 1.00 | |
| Trans-nonachlor | ND | 1.9 | 0.54 | 1.00 | |
| Surrogate | Rec. (%) | Control Limits | Qualifiers | | |
| Decachlorobiphenyl | 154 | 50-150 | 2,7 | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 150 | 50-150 | | | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 02/25/15
Work Order: 15-02-1894
Preparation: EPA 3510C
Method: EPA 8081A
Units: ng/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-06-G-S-20150224 | 15-02-1894-14-G | 02/24/15 11:25 | Sea Water | GC 44 | 03/02/15 | 03/06/15 22:06 | 150302L19 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------------------------|----------|----------------|------------|------|------------|
| 2,4'-DDD | ND | 1.9 | 0.57 | 1.00 | |
| 2,4'-DDE | ND | 1.9 | 0.47 | 1.00 | |
| 2,4'-DDT | ND | 1.9 | 0.67 | 1.00 | |
| 4,4'-DDD | ND | 1.9 | 0.53 | 1.00 | |
| 4,4'-DDE | ND | 1.9 | 0.46 | 1.00 | |
| 4,4'-DDT | ND | 1.9 | 0.54 | 1.00 | |
| Alpha Chlordane | ND | 1.9 | 0.48 | 1.00 | |
| Cis-nonachlor | ND | 1.9 | 0.49 | 1.00 | |
| Dieldrin | ND | 1.9 | 0.53 | 1.00 | |
| Gamma Chlordane | ND | 1.9 | 0.47 | 1.00 | |
| Oxychlordane | ND | 1.9 | 0.61 | 1.00 | |
| Toxaphene | ND | 24 | 8.0 | 1.00 | |
| Trans-nonachlor | ND | 1.9 | 0.54 | 1.00 | |
| Surrogate | Rec. (%) | Control Limits | Qualifiers | | |
| Decachlorobiphenyl | 140 | 50-150 | | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 140 | 50-150 | | | |

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 02/25/15
Work Order: 15-02-1894
Preparation: EPA 3510C
Method: EPA 8081A
Units: ng/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-05-G-S-20150224 | 15-02-1894-17-F | 02/24/15 12:39 | Sea Water | GC 44 | 03/02/15 | 03/06/15 22:20 | 150302L19 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------------------------|----------|----------------|------------|------|------------|
| 2,4'-DDD | ND | 1.9 | 0.57 | 1.00 | |
| 2,4'-DDE | ND | 1.9 | 0.47 | 1.00 | |
| 2,4'-DDT | ND | 1.9 | 0.67 | 1.00 | |
| 4,4'-DDD | ND | 1.9 | 0.53 | 1.00 | |
| 4,4'-DDE | ND | 1.9 | 0.46 | 1.00 | |
| 4,4'-DDT | ND | 1.9 | 0.54 | 1.00 | |
| Alpha Chlordane | ND | 1.9 | 0.48 | 1.00 | |
| Cis-nonachlor | ND | 1.9 | 0.49 | 1.00 | |
| Dieldrin | ND | 1.9 | 0.53 | 1.00 | |
| Gamma Chlordane | ND | 1.9 | 0.47 | 1.00 | |
| Oxychlordane | ND | 1.9 | 0.61 | 1.00 | |
| Toxaphene | ND | 24 | 8.0 | 1.00 | |
| Trans-nonachlor | ND | 1.9 | 0.54 | 1.00 | |
| Surrogate | Rec. (%) | Control Limits | Qualifiers | | |
| Decachlorobiphenyl | 132 | 50-150 | | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 130 | 50-150 | | | |

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 02/25/15
Work Order: 15-02-1894
Preparation: EPA 3510C
Method: EPA 8081A
Units: ng/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| FH-RW-07-G-S-20150224 | 15-02-1894-20-F | 02/24/15 13:11 | Sea Water | GC 44 | 03/02/15 | 03/06/15 22:34 | 150302L19 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------------------------|----------|----------------|------------|------|------------|
| 2,4'-DDD | ND | 1.9 | 0.57 | 1.00 | |
| 2,4'-DDE | ND | 1.9 | 0.47 | 1.00 | |
| 2,4'-DDT | ND | 1.9 | 0.67 | 1.00 | |
| 4,4'-DDD | ND | 1.9 | 0.53 | 1.00 | |
| 4,4'-DDE | ND | 1.9 | 0.46 | 1.00 | |
| 4,4'-DDT | ND | 1.9 | 0.54 | 1.00 | |
| Alpha Chlordane | ND | 1.9 | 0.48 | 1.00 | |
| Cis-nonachlor | ND | 1.9 | 0.49 | 1.00 | |
| Dieldrin | ND | 1.9 | 0.53 | 1.00 | |
| Gamma Chlordane | ND | 1.9 | 0.47 | 1.00 | |
| Oxychlordane | ND | 1.9 | 0.61 | 1.00 | |
| Toxaphene | ND | 24 | 8.0 | 1.00 | |
| Trans-nonachlor | ND | 1.9 | 0.54 | 1.00 | |
| Surrogate | Rec. (%) | Control Limits | Qualifiers | | |
| Decachlorobiphenyl | 128 | 50-150 | | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 123 | 50-150 | | | |

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 02/25/15
Work Order: 15-02-1894
Preparation: EPA 3510C
Method: EPA 8081A
Units: ng/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| CM-RW-10-G-S-20150224 | 15-02-1894-23-G | 02/24/15 13:48 | Sea Water | GC 44 | 03/02/15 | 03/06/15 22:48 | 150302L19 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------------------------|----------|----------------|------------|------|------------|
| 2,4'-DDD | ND | 1.9 | 0.57 | 1.00 | |
| 2,4'-DDE | ND | 1.9 | 0.47 | 1.00 | |
| 2,4'-DDT | ND | 1.9 | 0.67 | 1.00 | |
| 4,4'-DDD | ND | 1.9 | 0.53 | 1.00 | |
| 4,4'-DDE | ND | 1.9 | 0.46 | 1.00 | |
| 4,4'-DDT | ND | 1.9 | 0.54 | 1.00 | |
| Alpha Chlordane | ND | 1.9 | 0.48 | 1.00 | |
| Cis-nonachlor | ND | 1.9 | 0.49 | 1.00 | |
| Dieldrin | ND | 1.9 | 0.53 | 1.00 | |
| Gamma Chlordane | ND | 1.9 | 0.47 | 1.00 | |
| Oxychlordane | ND | 1.9 | 0.61 | 1.00 | |
| Toxaphene | ND | 24 | 8.0 | 1.00 | |
| Trans-nonachlor | ND | 1.9 | 0.54 | 1.00 | |
| Surrogate | Rec. (%) | Control Limits | Qualifiers | | |
| Decachlorobiphenyl | 135 | 50-150 | | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 129 | 50-150 | | | |

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 02/25/15
Work Order: 15-02-1894
Preparation: EPA 3510C
Method: EPA 8081A
Units: ng/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|---------|------------|---------------|--------------------|-------------|
| Method Blank | 099-16-036-17 | N/A | Aqueous | GC 44 | 03/02/15 | 03/06/15 20:54 | 150302L19 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------------------------|----------|----------------|------------|------|------------|
| 2,4'-DDD | ND | 2.0 | 0.58 | 1.00 | |
| 2,4'-DDE | ND | 2.0 | 0.49 | 1.00 | |
| 2,4'-DDT | ND | 2.0 | 0.69 | 1.00 | |
| 4,4'-DDD | ND | 2.0 | 0.55 | 1.00 | |
| 4,4'-DDE | ND | 2.0 | 0.48 | 1.00 | |
| 4,4'-DDT | ND | 2.0 | 0.55 | 1.00 | |
| Alpha Chlordane | ND | 2.0 | 0.49 | 1.00 | |
| Cis-nonachlor | ND | 2.0 | 0.50 | 1.00 | |
| Dieldrin | ND | 2.0 | 0.55 | 1.00 | |
| Gamma Chlordane | ND | 2.0 | 0.49 | 1.00 | |
| Oxychlordane | ND | 2.0 | 0.63 | 1.00 | |
| Toxaphene | ND | 25 | 8.2 | 1.00 | |
| Trans-nonachlor | ND | 2.0 | 0.56 | 1.00 | |
| Surrogate | Rec. (%) | Control Limits | Qualifiers | | |
| Decachlorobiphenyl | 103 | 50-150 | | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 93 | 50-150 | | | |

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 02/25/15
Work Order: 15-02-1894
Preparation: EPA 3510C
Method: EPA 8270C SIM PCB Congeners
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| CS-RW-01-G-S-20150224 | 15-02-1894-1-G | 02/24/15 08:57 | Sea Water | GC/MS HHH | 03/02/15 | 03/05/15 19:32 | 150302L20 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------|--------|--------|---------|------|------------|
| PCB018 | ND | 0.0019 | 0.00040 | 1.00 | |
| PCB028 | ND | 0.0019 | 0.00064 | 1.00 | |
| PCB037 | ND | 0.0019 | 0.00046 | 1.00 | |
| PCB044 | ND | 0.0019 | 0.00076 | 1.00 | |
| PCB049 | ND | 0.0019 | 0.00076 | 1.00 | |
| PCB052 | ND | 0.0019 | 0.00050 | 1.00 | |
| PCB066 | ND | 0.0019 | 0.00056 | 1.00 | |
| PCB070 | ND | 0.0019 | 0.00037 | 1.00 | |
| PCB074 | ND | 0.0019 | 0.00042 | 1.00 | |
| PCB077 | ND | 0.0019 | 0.00063 | 1.00 | |
| PCB081 | ND | 0.0019 | 0.00047 | 1.00 | |
| PCB087 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB099 | ND | 0.0019 | 0.00059 | 1.00 | |
| PCB101 | ND | 0.0019 | 0.00056 | 1.00 | |
| PCB105 | ND | 0.0019 | 0.00037 | 1.00 | |
| PCB110 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB114 | ND | 0.0019 | 0.00043 | 1.00 | |
| PCB118 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB119 | ND | 0.0019 | 0.00042 | 1.00 | |
| PCB123 | ND | 0.0019 | 0.00074 | 1.00 | |
| PCB126 | ND | 0.0019 | 0.00053 | 1.00 | |
| PCB128 | ND | 0.0019 | 0.00068 | 1.00 | |
| PCB132/153 | ND | 0.0039 | 0.0011 | 1.00 | |
| PCB138/158 | ND | 0.0039 | 0.0011 | 1.00 | |
| PCB149 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB151 | ND | 0.0019 | 0.00059 | 1.00 | |
| PCB156 | ND | 0.0019 | 0.00050 | 1.00 | |
| PCB157 | ND | 0.0019 | 0.00073 | 1.00 | |
| PCB167 | ND | 0.0019 | 0.00084 | 1.00 | |
| PCB168 | ND | 0.0019 | 0.00032 | 1.00 | |
| PCB169 | ND | 0.0019 | 0.00055 | 1.00 | |
| PCB170 | ND | 0.0019 | 0.00055 | 1.00 | |
| PCB177 | ND | 0.0019 | 0.00055 | 1.00 | |
| PCB180 | ND | 0.0019 | 0.00070 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 02/25/15
 Work Order: 15-02-1894
 Preparation: EPA 3510C
 Method: EPA 8270C SIM PCB Congeners
 Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|-----------------|-----------------------|-------------------|-----------|-------------------|
| PCB183 | ND | 0.0019 | 0.00052 | 1.00 | |
| PCB187 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB189 | ND | 0.0019 | 0.00039 | 1.00 | |
| PCB194 | ND | 0.0019 | 0.00041 | 1.00 | |
| PCB195 | ND | 0.0019 | 0.00034 | 1.00 | |
| PCB201 | ND | 0.0019 | 0.00070 | 1.00 | |
| PCB206 | ND | 0.0019 | 0.00025 | 1.00 | |
| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> | | |
| 2-Fluorobiphenyl | 68 | 50-150 | | | |
| p-Terphenyl-d14 | 71 | 50-150 | | | |

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 02/25/15
Work Order: 15-02-1894
Preparation: EPA 3510C
Method: EPA 8270C SIM PCB Congeners
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-02-G-S-20150224 | 15-02-1894-5-G | 02/24/15 09:28 | Sea Water | GC/MS HHH | 03/02/15 | 03/05/15 19:58 | 150302L20 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------|--------|--------|---------|------|------------|
| PCB018 | ND | 0.0019 | 0.00040 | 1.00 | |
| PCB028 | ND | 0.0019 | 0.00064 | 1.00 | |
| PCB037 | ND | 0.0019 | 0.00046 | 1.00 | |
| PCB044 | ND | 0.0019 | 0.00076 | 1.00 | |
| PCB049 | ND | 0.0019 | 0.00076 | 1.00 | |
| PCB052 | ND | 0.0019 | 0.00050 | 1.00 | |
| PCB066 | ND | 0.0019 | 0.00056 | 1.00 | |
| PCB070 | ND | 0.0019 | 0.00037 | 1.00 | |
| PCB074 | ND | 0.0019 | 0.00042 | 1.00 | |
| PCB077 | ND | 0.0019 | 0.00063 | 1.00 | |
| PCB081 | ND | 0.0019 | 0.00047 | 1.00 | |
| PCB087 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB099 | ND | 0.0019 | 0.00059 | 1.00 | |
| PCB101 | ND | 0.0019 | 0.00056 | 1.00 | |
| PCB105 | ND | 0.0019 | 0.00037 | 1.00 | |
| PCB110 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB114 | ND | 0.0019 | 0.00043 | 1.00 | |
| PCB118 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB119 | ND | 0.0019 | 0.00042 | 1.00 | |
| PCB123 | ND | 0.0019 | 0.00074 | 1.00 | |
| PCB126 | ND | 0.0019 | 0.00053 | 1.00 | |
| PCB128 | ND | 0.0019 | 0.00068 | 1.00 | |
| PCB132/153 | ND | 0.0039 | 0.0011 | 1.00 | |
| PCB138/158 | ND | 0.0039 | 0.0011 | 1.00 | |
| PCB149 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB151 | ND | 0.0019 | 0.00059 | 1.00 | |
| PCB156 | ND | 0.0019 | 0.00050 | 1.00 | |
| PCB157 | ND | 0.0019 | 0.00073 | 1.00 | |
| PCB167 | ND | 0.0019 | 0.00084 | 1.00 | |
| PCB168 | ND | 0.0019 | 0.00032 | 1.00 | |
| PCB169 | ND | 0.0019 | 0.00055 | 1.00 | |
| PCB170 | ND | 0.0019 | 0.00055 | 1.00 | |
| PCB177 | ND | 0.0019 | 0.00055 | 1.00 | |
| PCB180 | ND | 0.0019 | 0.00070 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 02/25/15
 Work Order: 15-02-1894
 Preparation: EPA 3510C
 Method: EPA 8270C SIM PCB Congeners
 Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|-----------------|-----------------------|-------------------|-----------|-------------------|
| PCB183 | ND | 0.0019 | 0.00052 | 1.00 | |
| PCB187 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB189 | ND | 0.0019 | 0.00039 | 1.00 | |
| PCB194 | ND | 0.0019 | 0.00041 | 1.00 | |
| PCB195 | ND | 0.0019 | 0.00034 | 1.00 | |
| PCB201 | ND | 0.0019 | 0.00070 | 1.00 | |
| PCB206 | ND | 0.0019 | 0.00025 | 1.00 | |
| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> | | |
| 2-Fluorobiphenyl | 86 | 50-150 | | | |
| p-Terphenyl-d14 | 85 | 50-150 | | | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 02/25/15
Work Order: 15-02-1894
Preparation: EPA 3510C
Method: EPA 8270C SIM PCB Congeners
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-03-G-S-20150224 | 15-02-1894-8-E | 02/24/15 10:12 | Sea Water | GC/MS HHH | 03/02/15 | 03/05/15 20:23 | 150302L20 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------|--------|--------|---------|------|------------|
| PCB018 | ND | 0.0019 | 0.00040 | 1.00 | |
| PCB028 | ND | 0.0019 | 0.00063 | 1.00 | |
| PCB037 | ND | 0.0019 | 0.00046 | 1.00 | |
| PCB044 | ND | 0.0019 | 0.00074 | 1.00 | |
| PCB049 | ND | 0.0019 | 0.00074 | 1.00 | |
| PCB052 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB066 | ND | 0.0019 | 0.00055 | 1.00 | |
| PCB070 | ND | 0.0019 | 0.00036 | 1.00 | |
| PCB074 | ND | 0.0019 | 0.00041 | 1.00 | |
| PCB077 | ND | 0.0019 | 0.00062 | 1.00 | |
| PCB081 | ND | 0.0019 | 0.00046 | 1.00 | |
| PCB087 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB099 | ND | 0.0019 | 0.00058 | 1.00 | |
| PCB101 | ND | 0.0019 | 0.00055 | 1.00 | |
| PCB105 | ND | 0.0019 | 0.00036 | 1.00 | |
| PCB110 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB114 | ND | 0.0019 | 0.00042 | 1.00 | |
| PCB118 | ND | 0.0019 | 0.00047 | 1.00 | |
| PCB119 | ND | 0.0019 | 0.00041 | 1.00 | |
| PCB123 | ND | 0.0019 | 0.00073 | 1.00 | |
| PCB126 | ND | 0.0019 | 0.00052 | 1.00 | |
| PCB128 | ND | 0.0019 | 0.00067 | 1.00 | |
| PCB132/153 | ND | 0.0038 | 0.0011 | 1.00 | |
| PCB138/158 | ND | 0.0038 | 0.0011 | 1.00 | |
| PCB149 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB151 | ND | 0.0019 | 0.00058 | 1.00 | |
| PCB156 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB157 | ND | 0.0019 | 0.00072 | 1.00 | |
| PCB167 | ND | 0.0019 | 0.00083 | 1.00 | |
| PCB168 | ND | 0.0019 | 0.00031 | 1.00 | |
| PCB169 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB170 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB177 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB180 | ND | 0.0019 | 0.00068 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 02/25/15
Work Order: 15-02-1894
Preparation: EPA 3510C
Method: EPA 8270C SIM PCB Congeners
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|-----------------|-----------------------|-------------------|-----------|-------------------|
| PCB183 | ND | 0.0019 | 0.00051 | 1.00 | |
| PCB187 | ND | 0.0019 | 0.00053 | 1.00 | |
| PCB189 | ND | 0.0019 | 0.00038 | 1.00 | |
| PCB194 | ND | 0.0019 | 0.00040 | 1.00 | |
| PCB195 | ND | 0.0019 | 0.00034 | 1.00 | |
| PCB201 | ND | 0.0019 | 0.00069 | 1.00 | |
| PCB206 | ND | 0.0019 | 0.00024 | 1.00 | |
| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> | | |
| 2-Fluorobiphenyl | 59 | 50-150 | | | |
| p-Terphenyl-d14 | 57 | 50-150 | | | |

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 02/25/15
Work Order: 15-02-1894
Preparation: EPA 3510C
Method: EPA 8270C SIM PCB Congeners
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-04-G-S-20150224 | 15-02-1894-11-H | 02/24/15 10:45 | Sea Water | GC/MS HHH | 03/02/15 | 03/05/15 20:49 | 150302L20 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------|--------|--------|---------|------|------------|
| PCB018 | ND | 0.0020 | 0.00041 | 1.00 | |
| PCB028 | ND | 0.0020 | 0.00065 | 1.00 | |
| PCB037 | ND | 0.0020 | 0.00047 | 1.00 | |
| PCB044 | ND | 0.0020 | 0.00076 | 1.00 | |
| PCB049 | ND | 0.0020 | 0.00077 | 1.00 | |
| PCB052 | ND | 0.0020 | 0.00050 | 1.00 | |
| PCB066 | ND | 0.0020 | 0.00056 | 1.00 | |
| PCB070 | ND | 0.0020 | 0.00037 | 1.00 | |
| PCB074 | ND | 0.0020 | 0.00042 | 1.00 | |
| PCB077 | ND | 0.0020 | 0.00064 | 1.00 | |
| PCB081 | ND | 0.0020 | 0.00047 | 1.00 | |
| PCB087 | ND | 0.0020 | 0.00049 | 1.00 | |
| PCB099 | ND | 0.0020 | 0.00059 | 1.00 | |
| PCB101 | ND | 0.0020 | 0.00057 | 1.00 | |
| PCB105 | ND | 0.0020 | 0.00037 | 1.00 | |
| PCB110 | ND | 0.0020 | 0.00049 | 1.00 | |
| PCB114 | ND | 0.0020 | 0.00043 | 1.00 | |
| PCB118 | ND | 0.0020 | 0.00048 | 1.00 | |
| PCB119 | ND | 0.0020 | 0.00042 | 1.00 | |
| PCB123 | ND | 0.0020 | 0.00075 | 1.00 | |
| PCB126 | ND | 0.0020 | 0.00053 | 1.00 | |
| PCB128 | ND | 0.0020 | 0.00069 | 1.00 | |
| PCB132/153 | ND | 0.0039 | 0.0012 | 1.00 | |
| PCB138/158 | ND | 0.0039 | 0.0011 | 1.00 | |
| PCB149 | ND | 0.0020 | 0.00050 | 1.00 | |
| PCB151 | ND | 0.0020 | 0.00060 | 1.00 | |
| PCB156 | ND | 0.0020 | 0.00050 | 1.00 | |
| PCB157 | ND | 0.0020 | 0.00074 | 1.00 | |
| PCB167 | ND | 0.0020 | 0.00085 | 1.00 | |
| PCB168 | ND | 0.0020 | 0.00032 | 1.00 | |
| PCB169 | ND | 0.0020 | 0.00055 | 1.00 | |
| PCB170 | ND | 0.0020 | 0.00055 | 1.00 | |
| PCB177 | ND | 0.0020 | 0.00056 | 1.00 | |
| PCB180 | ND | 0.0020 | 0.00070 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 02/25/15
 Work Order: 15-02-1894
 Preparation: EPA 3510C
 Method: EPA 8270C SIM PCB Congeners
 Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|-----------------|-----------------------|-------------------|-----------|-------------------|
| PCB183 | ND | 0.0020 | 0.00052 | 1.00 | |
| PCB187 | ND | 0.0020 | 0.00055 | 1.00 | |
| PCB189 | ND | 0.0020 | 0.00039 | 1.00 | |
| PCB194 | ND | 0.0020 | 0.00041 | 1.00 | |
| PCB195 | ND | 0.0020 | 0.00035 | 1.00 | |
| PCB201 | ND | 0.0020 | 0.00071 | 1.00 | |
| PCB206 | ND | 0.0020 | 0.00025 | 1.00 | |
| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> | | |
| 2-Fluorobiphenyl | 77 | 50-150 | | | |
| p-Terphenyl-d14 | 77 | 50-150 | | | |



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Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 02/25/15
Work Order: 15-02-1894
Preparation: EPA 3510C
Method: EPA 8270C SIM PCB Congeners
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-06-G-S-20150224 | 15-02-1894-14-F | 02/24/15 11:25 | Sea Water | GC/MS HHH | 03/02/15 | 03/05/15 21:14 | 150302L20 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------|--------|--------|---------|------|------------|
| PCB018 | ND | 0.0019 | 0.00040 | 1.00 | |
| PCB028 | ND | 0.0019 | 0.00064 | 1.00 | |
| PCB037 | ND | 0.0019 | 0.00046 | 1.00 | |
| PCB044 | ND | 0.0019 | 0.00076 | 1.00 | |
| PCB049 | ND | 0.0019 | 0.00076 | 1.00 | |
| PCB052 | ND | 0.0019 | 0.00050 | 1.00 | |
| PCB066 | ND | 0.0019 | 0.00056 | 1.00 | |
| PCB070 | ND | 0.0019 | 0.00037 | 1.00 | |
| PCB074 | ND | 0.0019 | 0.00042 | 1.00 | |
| PCB077 | ND | 0.0019 | 0.00063 | 1.00 | |
| PCB081 | ND | 0.0019 | 0.00047 | 1.00 | |
| PCB087 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB099 | ND | 0.0019 | 0.00059 | 1.00 | |
| PCB101 | ND | 0.0019 | 0.00056 | 1.00 | |
| PCB105 | ND | 0.0019 | 0.00037 | 1.00 | |
| PCB110 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB114 | ND | 0.0019 | 0.00043 | 1.00 | |
| PCB118 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB119 | ND | 0.0019 | 0.00042 | 1.00 | |
| PCB123 | ND | 0.0019 | 0.00074 | 1.00 | |
| PCB126 | ND | 0.0019 | 0.00053 | 1.00 | |
| PCB128 | ND | 0.0019 | 0.00068 | 1.00 | |
| PCB132/153 | ND | 0.0039 | 0.0011 | 1.00 | |
| PCB138/158 | ND | 0.0039 | 0.0011 | 1.00 | |
| PCB149 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB151 | ND | 0.0019 | 0.00059 | 1.00 | |
| PCB156 | ND | 0.0019 | 0.00050 | 1.00 | |
| PCB157 | ND | 0.0019 | 0.00073 | 1.00 | |
| PCB167 | ND | 0.0019 | 0.00084 | 1.00 | |
| PCB168 | ND | 0.0019 | 0.00032 | 1.00 | |
| PCB169 | ND | 0.0019 | 0.00055 | 1.00 | |
| PCB170 | ND | 0.0019 | 0.00055 | 1.00 | |
| PCB177 | ND | 0.0019 | 0.00055 | 1.00 | |
| PCB180 | ND | 0.0019 | 0.00070 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 02/25/15
 Work Order: 15-02-1894
 Preparation: EPA 3510C
 Method: EPA 8270C SIM PCB Congeners
 Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|-----------------|-----------------------|-------------------|-----------|-------------------|
| PCB183 | ND | 0.0019 | 0.00052 | 1.00 | |
| PCB187 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB189 | ND | 0.0019 | 0.00039 | 1.00 | |
| PCB194 | ND | 0.0019 | 0.00041 | 1.00 | |
| PCB195 | ND | 0.0019 | 0.00034 | 1.00 | |
| PCB201 | ND | 0.0019 | 0.00070 | 1.00 | |
| PCB206 | ND | 0.0019 | 0.00025 | 1.00 | |
| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> | | |
| 2-Fluorobiphenyl | 70 | 50-150 | | | |
| p-Terphenyl-d14 | 69 | 50-150 | | | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 02/25/15
Work Order: 15-02-1894
Preparation: EPA 3510C
Method: EPA 8270C SIM PCB Congeners
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-05-G-S-20150224 | 15-02-1894-17-G | 02/24/15 12:39 | Sea Water | GC/MS HHH | 03/02/15 | 03/05/15 21:40 | 150302L20 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------|--------|--------|---------|------|------------|
| PCB018 | ND | 0.0019 | 0.00040 | 1.00 | |
| PCB028 | ND | 0.0019 | 0.00064 | 1.00 | |
| PCB037 | ND | 0.0019 | 0.00046 | 1.00 | |
| PCB044 | ND | 0.0019 | 0.00075 | 1.00 | |
| PCB049 | ND | 0.0019 | 0.00075 | 1.00 | |
| PCB052 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB066 | ND | 0.0019 | 0.00055 | 1.00 | |
| PCB070 | ND | 0.0019 | 0.00037 | 1.00 | |
| PCB074 | ND | 0.0019 | 0.00041 | 1.00 | |
| PCB077 | ND | 0.0019 | 0.00063 | 1.00 | |
| PCB081 | ND | 0.0019 | 0.00047 | 1.00 | |
| PCB087 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB099 | ND | 0.0019 | 0.00058 | 1.00 | |
| PCB101 | ND | 0.0019 | 0.00056 | 1.00 | |
| PCB105 | ND | 0.0019 | 0.00036 | 1.00 | |
| PCB110 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB114 | ND | 0.0019 | 0.00042 | 1.00 | |
| PCB118 | ND | 0.0019 | 0.00047 | 1.00 | |
| PCB119 | ND | 0.0019 | 0.00041 | 1.00 | |
| PCB123 | ND | 0.0019 | 0.00074 | 1.00 | |
| PCB126 | ND | 0.0019 | 0.00052 | 1.00 | |
| PCB128 | ND | 0.0019 | 0.00068 | 1.00 | |
| PCB132/153 | ND | 0.0038 | 0.0011 | 1.00 | |
| PCB138/158 | ND | 0.0038 | 0.0011 | 1.00 | |
| PCB149 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB151 | ND | 0.0019 | 0.00059 | 1.00 | |
| PCB156 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB157 | ND | 0.0019 | 0.00072 | 1.00 | |
| PCB167 | ND | 0.0019 | 0.00083 | 1.00 | |
| PCB168 | ND | 0.0019 | 0.00032 | 1.00 | |
| PCB169 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB170 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB177 | ND | 0.0019 | 0.00055 | 1.00 | |
| PCB180 | ND | 0.0019 | 0.00069 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 02/25/15
 Work Order: 15-02-1894
 Preparation: EPA 3510C
 Method: EPA 8270C SIM PCB Congeners
 Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|-----------------|-----------------------|-------------------|-----------|-------------------|
| PCB183 | ND | 0.0019 | 0.00051 | 1.00 | |
| PCB187 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB189 | ND | 0.0019 | 0.00038 | 1.00 | |
| PCB194 | ND | 0.0019 | 0.00040 | 1.00 | |
| PCB195 | ND | 0.0019 | 0.00034 | 1.00 | |
| PCB201 | ND | 0.0019 | 0.00070 | 1.00 | |
| PCB206 | ND | 0.0019 | 0.00025 | 1.00 | |
| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> | | |
| 2-Fluorobiphenyl | 72 | 50-150 | | | |
| p-Terphenyl-d14 | 68 | 50-150 | | | |

Return to Contents 

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 02/25/15
Work Order: 15-02-1894
Preparation: EPA 3510C
Method: EPA 8270C SIM PCB Congeners
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| FH-RW-07-G-S-20150224 | 15-02-1894-20-E | 02/24/15 13:11 | Sea Water | GC/MS HHH | 03/02/15 | 03/05/15 22:05 | 150302L20 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------|--------|--------|---------|------|------------|
| PCB018 | ND | 0.0019 | 0.00040 | 1.00 | |
| PCB028 | ND | 0.0019 | 0.00064 | 1.00 | |
| PCB037 | ND | 0.0019 | 0.00046 | 1.00 | |
| PCB044 | ND | 0.0019 | 0.00076 | 1.00 | |
| PCB049 | ND | 0.0019 | 0.00076 | 1.00 | |
| PCB052 | ND | 0.0019 | 0.00050 | 1.00 | |
| PCB066 | ND | 0.0019 | 0.00056 | 1.00 | |
| PCB070 | ND | 0.0019 | 0.00037 | 1.00 | |
| PCB074 | ND | 0.0019 | 0.00042 | 1.00 | |
| PCB077 | ND | 0.0019 | 0.00063 | 1.00 | |
| PCB081 | ND | 0.0019 | 0.00047 | 1.00 | |
| PCB087 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB099 | ND | 0.0019 | 0.00059 | 1.00 | |
| PCB101 | ND | 0.0019 | 0.00056 | 1.00 | |
| PCB105 | ND | 0.0019 | 0.00037 | 1.00 | |
| PCB110 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB114 | ND | 0.0019 | 0.00043 | 1.00 | |
| PCB118 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB119 | ND | 0.0019 | 0.00042 | 1.00 | |
| PCB123 | ND | 0.0019 | 0.00074 | 1.00 | |
| PCB126 | ND | 0.0019 | 0.00053 | 1.00 | |
| PCB128 | ND | 0.0019 | 0.00068 | 1.00 | |
| PCB132/153 | ND | 0.0039 | 0.0011 | 1.00 | |
| PCB138/158 | ND | 0.0039 | 0.0011 | 1.00 | |
| PCB149 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB151 | ND | 0.0019 | 0.00059 | 1.00 | |
| PCB156 | ND | 0.0019 | 0.00050 | 1.00 | |
| PCB157 | ND | 0.0019 | 0.00073 | 1.00 | |
| PCB167 | ND | 0.0019 | 0.00084 | 1.00 | |
| PCB168 | ND | 0.0019 | 0.00032 | 1.00 | |
| PCB169 | ND | 0.0019 | 0.00055 | 1.00 | |
| PCB170 | ND | 0.0019 | 0.00055 | 1.00 | |
| PCB177 | ND | 0.0019 | 0.00055 | 1.00 | |
| PCB180 | ND | 0.0019 | 0.00070 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 02/25/15
 Work Order: 15-02-1894
 Preparation: EPA 3510C
 Method: EPA 8270C SIM PCB Congeners
 Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|-----------------|-----------------------|-------------------|-----------|-------------------|
| PCB183 | ND | 0.0019 | 0.00052 | 1.00 | |
| PCB187 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB189 | ND | 0.0019 | 0.00039 | 1.00 | |
| PCB194 | ND | 0.0019 | 0.00041 | 1.00 | |
| PCB195 | ND | 0.0019 | 0.00034 | 1.00 | |
| PCB201 | ND | 0.0019 | 0.00070 | 1.00 | |
| PCB206 | ND | 0.0019 | 0.00025 | 1.00 | |
| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> | | |
| 2-Fluorobiphenyl | 77 | 50-150 | | | |
| p-Terphenyl-d14 | 72 | 50-150 | | | |


 Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 02/25/15
Work Order: 15-02-1894
Preparation: EPA 3510C
Method: EPA 8270C SIM PCB Congeners
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

Page 15 of 18

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| CM-RW-10-G-S-20150224 | 15-02-1894-23-E | 02/24/15 13:48 | Sea Water | GC/MS HHH | 03/02/15 | 03/05/15 22:30 | 150302L20 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------|--------|--------|---------|------|------------|
| PCB018 | ND | 0.0019 | 0.00040 | 1.00 | |
| PCB028 | ND | 0.0019 | 0.00064 | 1.00 | |
| PCB037 | ND | 0.0019 | 0.00046 | 1.00 | |
| PCB044 | ND | 0.0019 | 0.00076 | 1.00 | |
| PCB049 | ND | 0.0019 | 0.00076 | 1.00 | |
| PCB052 | ND | 0.0019 | 0.00050 | 1.00 | |
| PCB066 | ND | 0.0019 | 0.00056 | 1.00 | |
| PCB070 | ND | 0.0019 | 0.00037 | 1.00 | |
| PCB074 | ND | 0.0019 | 0.00042 | 1.00 | |
| PCB077 | ND | 0.0019 | 0.00063 | 1.00 | |
| PCB081 | ND | 0.0019 | 0.00047 | 1.00 | |
| PCB087 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB099 | ND | 0.0019 | 0.00059 | 1.00 | |
| PCB101 | ND | 0.0019 | 0.00056 | 1.00 | |
| PCB105 | ND | 0.0019 | 0.00037 | 1.00 | |
| PCB110 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB114 | ND | 0.0019 | 0.00043 | 1.00 | |
| PCB118 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB119 | ND | 0.0019 | 0.00042 | 1.00 | |
| PCB123 | ND | 0.0019 | 0.00074 | 1.00 | |
| PCB126 | ND | 0.0019 | 0.00053 | 1.00 | |
| PCB128 | ND | 0.0019 | 0.00068 | 1.00 | |
| PCB132/153 | ND | 0.0039 | 0.0011 | 1.00 | |
| PCB138/158 | ND | 0.0039 | 0.0011 | 1.00 | |
| PCB149 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB151 | ND | 0.0019 | 0.00059 | 1.00 | |
| PCB156 | ND | 0.0019 | 0.00050 | 1.00 | |
| PCB157 | ND | 0.0019 | 0.00073 | 1.00 | |
| PCB167 | ND | 0.0019 | 0.00084 | 1.00 | |
| PCB168 | ND | 0.0019 | 0.00032 | 1.00 | |
| PCB169 | ND | 0.0019 | 0.00055 | 1.00 | |
| PCB170 | ND | 0.0019 | 0.00055 | 1.00 | |
| PCB177 | ND | 0.0019 | 0.00055 | 1.00 | |
| PCB180 | ND | 0.0019 | 0.00070 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 02/25/15
 Work Order: 15-02-1894
 Preparation: EPA 3510C
 Method: EPA 8270C SIM PCB Congeners
 Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|-----------------|-----------------------|-------------------|-----------|-------------------|
| PCB183 | ND | 0.0019 | 0.00052 | 1.00 | |
| PCB187 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB189 | ND | 0.0019 | 0.00039 | 1.00 | |
| PCB194 | ND | 0.0019 | 0.00041 | 1.00 | |
| PCB195 | ND | 0.0019 | 0.00034 | 1.00 | |
| PCB201 | ND | 0.0019 | 0.00070 | 1.00 | |
| PCB206 | ND | 0.0019 | 0.00025 | 1.00 | |
| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> | | |
| 2-Fluorobiphenyl | 74 | 50-150 | | | |
| p-Terphenyl-d14 | 72 | 50-150 | | | |

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

| | | |
|------------------------------|----------------|-----------------------------|
| ANCHOR QEA, LLC | Date Received: | 02/25/15 |
| 27201 Puerta Real, Suite 350 | Work Order: | 15-02-1894 |
| Mission Viejo, CA 92691-8306 | Preparation: | EPA 3510C |
| | Method: | EPA 8270C SIM PCB Congeners |
| | Units: | ug/L |

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|---------|------------|---------------|--------------------|-------------|
| Method Blank | 099-16-414-27 | N/A | Aqueous | GC/MS HHH | 03/02/15 | 03/10/15 16:01 | 150302L20 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------|--------|--------|---------|------|------------|
| PCB018 | ND | 0.0020 | 0.00042 | 1.00 | |
| PCB028 | ND | 0.0020 | 0.00066 | 1.00 | |
| PCB037 | ND | 0.0020 | 0.00048 | 1.00 | |
| PCB044 | ND | 0.0020 | 0.00078 | 1.00 | |
| PCB049 | ND | 0.0020 | 0.00078 | 1.00 | |
| PCB052 | ND | 0.0020 | 0.00051 | 1.00 | |
| PCB066 | ND | 0.0020 | 0.00057 | 1.00 | |
| PCB070 | ND | 0.0020 | 0.00038 | 1.00 | |
| PCB074 | ND | 0.0020 | 0.00043 | 1.00 | |
| PCB077 | ND | 0.0020 | 0.00065 | 1.00 | |
| PCB081 | ND | 0.0020 | 0.00048 | 1.00 | |
| PCB087 | ND | 0.0020 | 0.00050 | 1.00 | |
| PCB099 | ND | 0.0020 | 0.00060 | 1.00 | |
| PCB101 | ND | 0.0020 | 0.00058 | 1.00 | |
| PCB105 | ND | 0.0020 | 0.00038 | 1.00 | |
| PCB110 | ND | 0.0020 | 0.00050 | 1.00 | |
| PCB114 | ND | 0.0020 | 0.00044 | 1.00 | |
| PCB118 | ND | 0.0020 | 0.00049 | 1.00 | |
| PCB119 | ND | 0.0020 | 0.00043 | 1.00 | |
| PCB123 | ND | 0.0020 | 0.00077 | 1.00 | |
| PCB126 | ND | 0.0020 | 0.00055 | 1.00 | |
| PCB128 | ND | 0.0020 | 0.00070 | 1.00 | |
| PCB132/153 | ND | 0.0040 | 0.0012 | 1.00 | |
| PCB138/158 | ND | 0.0040 | 0.0011 | 1.00 | |
| PCB149 | ND | 0.0020 | 0.00050 | 1.00 | |
| PCB151 | ND | 0.0020 | 0.00061 | 1.00 | |
| PCB156 | ND | 0.0020 | 0.00051 | 1.00 | |
| PCB157 | ND | 0.0020 | 0.00075 | 1.00 | |
| PCB167 | ND | 0.0020 | 0.00087 | 1.00 | |
| PCB168 | ND | 0.0020 | 0.00033 | 1.00 | |
| PCB169 | ND | 0.0020 | 0.00056 | 1.00 | |
| PCB170 | ND | 0.0020 | 0.00056 | 1.00 | |
| PCB177 | ND | 0.0020 | 0.00057 | 1.00 | |
| PCB180 | ND | 0.0020 | 0.00072 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 02/25/15
 Work Order: 15-02-1894
 Preparation: EPA 3510C
 Method: EPA 8270C SIM PCB Congeners
 Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|-----------------|-----------------------|-------------------|-----------|-------------------|
| PCB183 | ND | 0.0020 | 0.00053 | 1.00 | |
| PCB187 | ND | 0.0020 | 0.00056 | 1.00 | |
| PCB189 | ND | 0.0020 | 0.00040 | 1.00 | |
| PCB194 | ND | 0.0020 | 0.00042 | 1.00 | |
| PCB195 | ND | 0.0020 | 0.00035 | 1.00 | |
| PCB201 | ND | 0.0020 | 0.00072 | 1.00 | |
| PCB206 | ND | 0.0020 | 0.00026 | 1.00 | |
| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> | | |
| 2-Fluorobiphenyl | 65 | 50-150 | | | |
| p-Terphenyl-d14 | 62 | 50-150 | | | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Quality Control - Spike/Spike Duplicate

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 02/25/15
 Work Order: 15-02-1894
 Preparation: EPA 1631E Total
 Method: EPA 1631E

Project: GWMA - TMDL Compliance Monitoring

Page 1 of 3

| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | MS/MSD Batch Number |
|---------------------------|------------------------|-----------|------------|---------------|----------------|---------------------|
| CS-RW-01-G-S-20150224 | Sample | Sea Water | Hg/AF 1 | 03/06/15 | 03/06/15 00:00 | 150306S01A |
| CS-RW-01-G-S-20150224 | Matrix Spike | Sea Water | Hg/AF 1 | 03/06/15 | 03/06/15 00:00 | 150306S01A |
| CS-RW-01-G-S-20150224 | Matrix Spike Duplicate | Sea Water | Hg/AF 1 | 03/06/15 | 03/06/15 00:00 | 150306S01A |

| Parameter | Sample Conc. | Spike Added | MS Conc. | MS %Rec. | MSD Conc. | MSD %Rec. | %Rec. CL | RPD | RPD CL | Qualifiers |
|-----------|--------------|-------------|----------|----------|-----------|-----------|----------|-----|--------|------------|
| Mercury | 0.007391 | 0.02000 | 0.02796 | 103 | 0.02741 | 100 | 71-125 | 2 | 0-24 | |

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RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - Spike/Spike Duplicate

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 02/25/15
Work Order: 15-02-1894
Preparation: Filtered
Method: EPA 1631E

Project: GWMA - TMDL Compliance Monitoring

Page 2 of 3

| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | MS/MSD Batch Number |
|---------------------------|------------------------|-----------|------------|---------------|----------------|---------------------|
| CS-RW-01-G-S-20150224 | Sample | Sea Water | Hg/AF 1 | 03/06/15 | 03/06/15 00:00 | 150306S01 |
| CS-RW-01-G-S-20150224 | Matrix Spike | Sea Water | Hg/AF 1 | 03/06/15 | 03/06/15 00:00 | 150306S01 |
| CS-RW-01-G-S-20150224 | Matrix Spike Duplicate | Sea Water | Hg/AF 1 | 03/06/15 | 03/06/15 00:00 | 150306S01 |

| Parameter | Sample Conc. | Spike Added | MS Conc. | MS %Rec. | MSD Conc. | MSD %Rec. | %Rec. CL | RPD | RPD CL | Qualifiers |
|-----------|--------------|-------------|----------|----------|-----------|-----------|----------|-----|--------|------------|
| Mercury | 0.001122 | 0.02000 | 0.02532 | 121 | 0.02325 | 111 | 71-125 | 9 | 0-24 | |

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - Spike/Spike Duplicate

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 02/25/15
Work Order: 15-02-1894
Preparation: EPA 3005A Total
Method: EPA 1640

Project: GWMA - TMDL Compliance Monitoring

Page 3 of 3

| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | MS/MSD Batch Number |
|---------------------------|------------------------|-----------|------------|---------------|----------------|---------------------|
| CS-RW-01-G-S-20150224 | Sample | Sea Water | ICP/MS 05 | 03/05/15 | 03/06/15 04:09 | 150305S01 |
| CS-RW-01-G-S-20150224 | Matrix Spike | Sea Water | ICP/MS 05 | 03/05/15 | 03/09/15 23:54 | 150305S01 |
| CS-RW-01-G-S-20150224 | Matrix Spike Duplicate | Sea Water | ICP/MS 05 | 03/05/15 | 03/10/15 00:02 | 150305S01 |

| Parameter | Sample Conc. | Spike Added | MS Conc. | MS %Rec. | MSD Conc. | MSD %Rec. | %Rec. CL | RPD | RPD CL | Qualifiers |
|-----------|--------------|-------------|----------|----------|-----------|-----------|----------|-----|--------|------------|
| Cadmium | 0.09780 | 0.5000 | 0.6495 | 110 | 0.6500 | 110 | 50-150 | 0 | 0-20 | |
| Chromium | 0.6782 | 5.000 | 6.618 | 119 | 6.495 | 116 | 50-150 | 2 | 0-20 | |
| Copper | 6.415 | 0.5000 | 7.905 | 4X | 7.299 | 4X | 50-150 | 4X | 0-20 | Q |
| Lead | 1.229 | 0.5000 | 1.735 | 101 | 1.725 | 99 | 50-150 | 1 | 0-20 | |
| Zinc | 42.76 | 5.000 | 51.48 | 4X | 51.29 | 4X | 50-150 | 4X | 0-20 | Q |

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RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - Sample Duplicate

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 02/25/15
Work Order: 15-02-1894
Preparation: N/A
Method: SM 2540 D

Project: GWMA - TMDL Compliance Monitoring

Page 1 of 2

| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | Duplicate Batch Number |
|---------------------------|------------------|-----------|------------|----------------|----------------|------------------------|
| CS-RW-01-G-S-20150224 | Sample | Sea Water | N/A | 03/02/15 00:00 | 03/02/15 18:00 | F0302TSSD4 |
| CS-RW-01-G-S-20150224 | Sample Duplicate | Sea Water | N/A | 03/02/15 00:00 | 03/02/15 18:00 | F0302TSSD4 |

| Parameter | Sample Conc. | DUP Conc. | RPD | RPD CL | Qualifiers |
|-------------------------|--------------|-----------|-----|--------|------------|
| Solids, Total Suspended | ND | ND | N/A | 0-20 | |

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RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - Sample Duplicate

| | | |
|--|----------------|-------------|
| ANCHOR QEA, LLC | Date Received: | 02/25/15 |
| 27201 Puerta Real, Suite 350 | Work Order: | 15-02-1894 |
| Mission Viejo, CA 92691-8306 | Preparation: | N/A |
| | Method: | SM 2540 D |
| Project: GWMA - TMDL Compliance Monitoring | | Page 2 of 2 |

| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | Duplicate Batch Number |
|---------------------------|------------------|---------|------------|----------------|----------------|------------------------|
| 15-02-1995-1 | Sample | Aqueous | N/A | 03/02/15 00:00 | 03/02/15 22:00 | F0302TSSD5 |
| 15-02-1995-1 | Sample Duplicate | Aqueous | N/A | 03/02/15 00:00 | 03/02/15 22:00 | F0302TSSD5 |

| Parameter | Sample Conc. | DUP Conc. | RPD | RPD CL | Qualifiers |
|-------------------------|--------------|-----------|-----|--------|------------|
| Solids, Total Suspended | 9.400 | 9.200 | 2 | 0-20 | |

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RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - LCS/LCSD

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 02/25/15
 Work Order: 15-02-1894
 Preparation: N/A
 Method: SM 2540 D

Project: GWMA - TMDL Compliance Monitoring

Page 1 of 8

| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | LCS/LCSD Batch Number |
|---------------------------|------|---------|------------|---------------|----------------|-----------------------|
| 099-09-010-7091 | LCS | Aqueous | N/A | 03/02/15 | 03/02/15 18:00 | F0302TSSL4 |
| 099-09-010-7091 | LCSD | Aqueous | N/A | 03/02/15 | 03/02/15 18:00 | F0302TSSL4 |

| Parameter | Spike Added | LCS Conc. | LCS %Rec. | LCSD Conc. | LCSD %Rec. | %Rec. CL | RPD | RPD CL | Qualifiers |
|-------------------------|-------------|-----------|-----------|------------|------------|----------|-----|--------|------------|
| Solids, Total Suspended | 100.0 | 88.00 | 88 | 83.00 | 83 | 80-120 | 6 | 0-20 | |

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RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - LCS/LCSD

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 02/25/15
Work Order: 15-02-1894
Preparation: N/A
Method: SM 2540 D

Project: GWMA - TMDL Compliance Monitoring

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| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | LCS/LCSD Batch Number | | | |
|---------------------------|-------------|-----------|------------|---------------|----------------|-----------------------|-----|--------|------------|
| 099-09-010-7074 | LCS | Aqueous | N/A | 03/02/15 | 03/02/15 22:00 | F0302TSSL5 | | | |
| 099-09-010-7074 | LCSD | Aqueous | N/A | 03/02/15 | 03/02/15 22:00 | F0302TSSL5 | | | |
| Parameter | Spike Added | LCS Conc. | LCS %Rec. | LCSD Conc. | LCSD %Rec. | %Rec. CL | RPD | RPD CL | Qualifiers |
| Solids, Total Suspended | 100.0 | 96.00 | 96 | 88.00 | 88 | 80-120 | 9 | 0-20 | |

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - LCS/LCSD

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 02/25/15
Work Order: 15-02-1894
Preparation: EPA 1631E Total
Method: EPA 1631E

Project: GWMA - TMDL Compliance Monitoring

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| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | LCS/LCSD Batch Number |
|---------------------------|------|---------|------------|---------------|----------------|-----------------------|
| 099-15-224-78 | LCS | Aqueous | Hg/AF 1 | 03/06/15 | 03/06/15 00:00 | 150306L01 |
| 099-15-224-78 | LCSD | Aqueous | Hg/AF 1 | 03/06/15 | 03/06/15 00:00 | 150306L01 |

| Parameter | Spike Added | LCS Conc. | LCS %Rec. | LCSD Conc. | LCSD %Rec. | %Rec. CL | RPD | RPD CL | Qualifiers |
|-----------|-------------|-----------|-----------|------------|------------|----------|-----|--------|------------|
| Mercury | 0.02000 | 0.01646 | 82 | 0.02002 | 100 | 71-125 | 20 | 0-20 | |

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RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - LCS/LCSD

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 02/25/15
 Work Order: 15-02-1894
 Preparation: Filtered
 Method: EPA 1631E

Project: GWMA - TMDL Compliance Monitoring

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| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | LCS/LCSD Batch Number |
|---------------------------|------|---------|------------|---------------|----------------|-----------------------|
| 099-15-226-60 | LCS | Aqueous | Hg/AF 1 | 03/06/15 | 03/06/15 00:00 | 150306L01F |
| 099-15-226-60 | LCSD | Aqueous | Hg/AF 1 | 03/06/15 | 03/06/15 00:00 | 150306L01F |

| Parameter | Spike Added | LCS Conc. | LCS %Rec. | LCSD Conc. | LCSD %Rec. | %Rec. CL | RPD | RPD CL | Qualifiers |
|-----------|-------------|-----------|-----------|------------|------------|----------|-----|--------|------------|
| Mercury | 0.02000 | 0.01646 | 82 | 0.02002 | 100 | 71-125 | 20 | 0-20 | |

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RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - LCS/LCSD

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 02/25/15
Work Order: 15-02-1894
Preparation: EPA 3005A Total
Method: EPA 1640

Project: GWMA - TMDL Compliance Monitoring

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| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | LCS/LCSD Batch Number | | | |
|---------------------------|-------------|-----------|------------|---------------|----------------|-----------------------|-----|--------|------------|
| 099-13-067-495 | LCS | Aqueous | ICP/MS 05 | 03/05/15 | 03/05/15 19:21 | 150305L01 | | | |
| 099-13-067-495 | LCSD | Aqueous | ICP/MS 05 | 03/05/15 | 03/05/15 19:29 | 150305L01 | | | |
| Parameter | Spike Added | LCS Conc. | LCS %Rec. | LCSD Conc. | LCSD %Rec. | %Rec. CL | RPD | RPD CL | Qualifiers |
| Cadmium | 0.5000 | 0.5265 | 105 | 0.5152 | 103 | 70-130 | 2 | 0-20 | |
| Chromium | 5.000 | 5.532 | 111 | 5.276 | 106 | 70-130 | 5 | 0-20 | |
| Copper | 0.5000 | 0.5170 | 103 | 0.5254 | 105 | 70-130 | 2 | 0-20 | |
| Lead | 0.5000 | 0.5187 | 104 | 0.5261 | 105 | 70-130 | 1 | 0-20 | |
| Zinc | 5.000 | 5.333 | 107 | 5.420 | 108 | 70-130 | 2 | 0-20 | |


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RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - LCS/LCSD

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 02/25/15
Work Order: 15-02-1894
Preparation: EPA 3005A Filt.
Method: EPA 1640

Project: GWMA - TMDL Compliance Monitoring

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| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | LCS/LCSD Batch Number | | | |
|---------------------------|-------------|-----------|------------|---------------|----------------|-----------------------|-----|--------|------------|
| 099-15-823-134 | LCS | Aqueous | ICP/MS 05 | 03/05/15 | 03/05/15 19:21 | 150305L01F | | | |
| 099-15-823-134 | LCSD | Aqueous | ICP/MS 05 | 03/05/15 | 03/05/15 19:29 | 150305L01F | | | |
| Parameter | Spike Added | LCS Conc. | LCS %Rec. | LCSD Conc. | LCSD %Rec. | %Rec. CL | RPD | RPD CL | Qualifiers |
| Cadmium | 0.5000 | 0.5265 | 105 | 0.5152 | 103 | 70-130 | 2 | 0-20 | |
| Chromium | 5.000 | 5.532 | 111 | 5.276 | 106 | 70-130 | 5 | 0-20 | |
| Copper | 0.5000 | 0.5170 | 103 | 0.5254 | 105 | 70-130 | 2 | 0-20 | |
| Lead | 0.5000 | 0.5187 | 104 | 0.5261 | 105 | 70-130 | 1 | 0-20 | |
| Zinc | 5.000 | 5.333 | 107 | 5.420 | 108 | 70-130 | 2 | 0-20 | |


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RPD: Relative Percent Difference. CL: Control Limits



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Quality Control - LCS/LCSD

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 02/25/15
Work Order: 15-02-1894
Preparation: EPA 3510C
Method: EPA 8081A

Project: GWMA - TMDL Compliance Monitoring

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| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | LCS/LCSD Batch Number | | | | |
|---------------------------|-------------|-----------|------------|---------------|----------------|-----------------------|--------|-----|--------|------------|
| 099-16-036-17 | LCS | Aqueous | GC 44 | 03/02/15 | 03/06/15 23:03 | 150302L19 | | | | |
| 099-16-036-17 | LCSD | Aqueous | GC 44 | 03/02/15 | 03/06/15 23:17 | 150302L19 | | | | |
| Parameter | Spike Added | LCS Conc. | LCS %Rec. | LCSD Conc. | LCSD %Rec. | %Rec. CL | ME CL | RPD | RPD CL | Qualifiers |
| Aldrin | 50.00 | 50.45 | 101 | 47.00 | 94 | 50-150 | 33-167 | 7 | 0-25 | |
| 4,4'-DDD | 50.00 | 56.10 | 112 | 51.50 | 103 | 50-150 | 33-167 | 9 | 0-25 | |
| 4,4'-DDE | 50.00 | 48.22 | 96 | 45.30 | 91 | 50-150 | 33-167 | 6 | 0-25 | |
| 4,4'-DDT | 50.00 | 48.28 | 97 | 44.42 | 89 | 50-150 | 33-167 | 8 | 0-25 | |
| Alpha Chlordane | 50.00 | 49.32 | 99 | 46.26 | 93 | 50-150 | 33-167 | 6 | 0-25 | |
| Dieldrin | 50.00 | 51.52 | 103 | 48.15 | 96 | 50-150 | 33-167 | 7 | 0-25 | |
| Gamma Chlordane | 50.00 | 48.78 | 98 | 45.65 | 91 | 50-150 | 33-167 | 7 | 0-25 | |
| Endrin | 50.00 | 46.35 | 93 | 43.59 | 87 | 50-150 | 33-167 | 6 | 0-25 | |
| Gamma-BHC | 50.00 | 51.50 | 103 | 47.08 | 94 | 50-150 | 33-167 | 9 | 0-25 | |
| Heptachlor | 50.00 | 51.38 | 103 | 47.12 | 94 | 50-150 | 33-167 | 9 | 0-25 | |
| Heptachlor Epoxide | 50.00 | 49.89 | 100 | 46.67 | 93 | 50-150 | 33-167 | 7 | 0-25 | |

Total number of LCS compounds: 11

Total number of ME compounds: 0

Total number of ME compounds allowed: 1

LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - LCS/LCSD

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 02/25/15
Work Order: 15-02-1894
Preparation: EPA 3510C
Method: EPA 8270C SIM PCB Congeners

Project: GWMA - TMDL Compliance Monitoring

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| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | LCS/LCSD Batch Number | | | | |
|---------------------------|-------------|-----------|------------|---------------|----------------|-----------------------|--------|-----|--------|------------|
| 099-16-414-27 | LCS | Aqueous | GC/MS HHH | 03/02/15 | 03/10/15 16:53 | 150302L20 | | | | |
| 099-16-414-27 | LCSD | Aqueous | GC/MS HHH | 03/02/15 | 03/10/15 15:35 | 150302L20 | | | | |
| Parameter | Spike Added | LCS Conc. | LCS %Rec. | LCSD Conc. | LCSD %Rec. | %Rec. CL | ME CL | RPD | RPD CL | Qualifiers |
| PCB018 | 0.5000 | 0.3074 | 61 | 0.3052 | 61 | 50-150 | 33-167 | 1 | 0-25 | |
| PCB028 | 0.5000 | 0.3354 | 67 | 0.3351 | 67 | 50-150 | 33-167 | 0 | 0-25 | |
| PCB044 | 0.5000 | 0.3080 | 62 | 0.3053 | 61 | 50-150 | 33-167 | 1 | 0-25 | |
| PCB052 | 0.5000 | 0.2740 | 55 | 0.2755 | 55 | 50-150 | 33-167 | 1 | 0-25 | |
| PCB066 | 0.5000 | 0.3530 | 71 | 0.3519 | 70 | 50-150 | 33-167 | 0 | 0-25 | |
| PCB077 | 0.5000 | 0.3332 | 67 | 0.3322 | 66 | 50-150 | 33-167 | 0 | 0-25 | |
| PCB101 | 0.5000 | 0.2952 | 59 | 0.2929 | 59 | 50-150 | 33-167 | 1 | 0-25 | |
| PCB105 | 0.5000 | 0.3171 | 63 | 0.3134 | 63 | 50-150 | 33-167 | 1 | 0-25 | |
| PCB118 | 0.5000 | 0.3265 | 65 | 0.3245 | 65 | 50-150 | 33-167 | 1 | 0-25 | |
| PCB126 | 0.5000 | 0.3064 | 61 | 0.3054 | 61 | 50-150 | 33-167 | 0 | 0-25 | |
| PCB128 | 0.5000 | 0.2587 | 52 | 0.2596 | 52 | 50-150 | 33-167 | 0 | 0-25 | |
| PCB170 | 0.5000 | 0.2916 | 58 | 0.2888 | 58 | 50-150 | 33-167 | 1 | 0-25 | |
| PCB180 | 0.5000 | 0.2580 | 52 | 0.2585 | 52 | 50-150 | 33-167 | 0 | 0-25 | |
| PCB187 | 0.5000 | 0.2751 | 55 | 0.2719 | 54 | 50-150 | 33-167 | 1 | 0-25 | |
| PCB195 | 0.5000 | 0.3340 | 67 | 0.3308 | 66 | 50-150 | 33-167 | 1 | 0-25 | |
| PCB206 | 0.5000 | 0.3015 | 60 | 0.3020 | 60 | 50-150 | 33-167 | 0 | 0-25 | |
| PCB209 | 0.5000 | 0.3268 | 65 | 0.3168 | 63 | 50-150 | 33-167 | 3 | 0-25 | |

Total number of LCS compounds: 17

Total number of ME compounds: 0

Total number of ME compounds allowed: 1

LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

Glossary of Terms and Qualifiers

Work Order: 15-02-1894

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| <u>Qualifiers</u> | <u>Definition</u> |
|-------------------|--|
| * | See applicable analysis comment. |
| < | Less than the indicated value. |
| > | Greater than the indicated value. |
| 1 | Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification. |
| 2 | Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification. |
| 3 | Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control. |
| 4 | The MS/MSD RPD was out of control due to suspected matrix interference. |
| 5 | The PDS/PDS or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference. |
| 6 | Surrogate recovery below the acceptance limit. |
| 7 | Surrogate recovery above the acceptance limit. |
| B | Analyte was present in the associated method blank. |
| BU | Sample analyzed after holding time expired. |
| BV | Sample received after holding time expired. |
| E | Concentration exceeds the calibration range. |
| ET | Sample was extracted past end of recommended max. holding time. |
| HD | The chromatographic pattern was inconsistent with the profile of the reference fuel standard. |
| HDH | The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected). |
| HDL | The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected). |
| J | Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated. |
| JA | Analyte positively identified but quantitation is an estimate. |
| ME | LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean). |
| ND | Parameter not detected at the indicated reporting limit. |
| Q | Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater. |
| SG | The sample extract was subjected to Silica Gel treatment prior to analysis. |
| X | % Recovery and/or RPD out-of-range. |
| Z | Analyte presence was not confirmed by second column or GC/MS analysis. |

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of ≤ 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

Chain of Custody Record & Laboratory Analysis Request

Laboratory Number: _____
 Date: 2.24.15
 Project Name: GWMA-TMDL Compliance Monitoring
 Project Number: 141205-01.01
 Project Manager: Andy Martin
 Phone Number: (949) 334-9630
 Shipment Method: Courier



Test Parameters

15-02-1894

| Line | Field Sample ID | Collection Date/Time | Matrix | No. of Containers | TSS | Total and dissolved metals | Total and dissolved mercury | Organochlorine pesticides | PCB Congeners | Comments/Preservation |
|------|------------------------|----------------------|--------|-------------------|-----|----------------------------|-----------------------------|---------------------------|---------------|-----------------------|
| 1 | CS-RW-01-G-S-20150224 | 2.24.15 0857 | WAT | 8 | X | X | X | X | X | |
| 2 | CS-RW-01-G-M-20150224 | 0857 | | 1 | X | X | X | X | X | |
| 3 | CS-RW-01-G-B-20150224 | 0858 | | 1 | X | X | X | X | X | |
| 4 | CS-RW-001-G-S-20150224 | 0857 | | 1 | X | X | X | X | X | |
| 5 | IA-RW-02-G-S-20150224 | 0928 | | 8 | X | X | X | X | X | |
| 6 | IA-RW-02-G-M-20150224 | 0932 | | 1 | X | X | X | X | X | |
| 7 | IA-RW-02-G-B-20150224 | 0934 | | 1 | X | X | X | X | X | |
| 8 | IA-RW-03-G-S-20150224 | 1012 | | 8 | X | X | X | X | X | |
| 9 | IA-RW-03-G-M-20150224 | 1013 | | 1 | X | X | X | X | X | |
| 10 | IA-RW-03-G-B-20150224 | 1016 | | 1 | X | X | X | X | X | |
| 11 | IA-RW-04-G-S-20150224 | 1045 | | 8 | X | X | X | X | X | |
| 12 | IA-RW-04-G-M-20150224 | 1047 | | 1 | X | X | X | X | X | |
| 13 | IA-RW-04-G-B-20150224 | 1049 | | 1 | X | X | X | X | X | |
| 14 | IA-RW-06-G-S-20150224 | 1125 | | 8 | X | X | X | X | X | |
| 15 | IA-RW-06-G-M-20150224 | 1126 | | 1 | X | X | X | X | X | |

Notes:

Relinquished By: [Signature]
 Signature/Printed Name: _____
 Company: Anchor OEA
 Date/Time: 2/25/15 1140

Received By: [Signature]
 Signature/Printed Name: _____
 Company: ECE
 Date/Time: 2/25/15 1140

Relinquished By: [Signature]
 Signature/Printed Name: _____
 Company: ECE
 Date/Time: 2/25/15 1330

Received By: [Signature]
 Signature/Printed Name: _____
 Company: ECE
 Date/Time: 2/25/15 1330

Chain of Custody Record & Laboratory Analysis Request

Laboratory Number:

Date:

Project Name: GWMA-TMDL Compliance Monitoring
 Project Number: 141205-01.01
 Project Manager: Andy Martin
 Phone Number: (949) 334-9630
 Shipment Method: Courier



1894

Test Parameters

| Line | Field Sample ID | Collection Date/Time | Matrix | No. of Containers | TSS | Total and dissolved metals | Total and dissolved mercury | Organochlorine pesticides | PCB Congeners | Comments/Preservation |
|------|-----------------------|----------------------|--------|-------------------|-----|----------------------------|-----------------------------|---------------------------|---------------|-----------------------|
| 16 | JA-RW-00-G-B-20150224 | 2.24.15 | WAT | 1 | X | | | | | |
| 17 | JA-RW-05-G-S-20150224 | 12.39 | | 8 | X | X | X | X | | |
| 18 | JA-RW-05-G-M-20150224 | 12.40 | | 1 | X | | | | | |
| 19 | JA-RW-05-G-B-20150224 | 12.42 | | 1 | X | | | | | |
| 20 | FH-RW-07-G-S-20150224 | 13.11 | | 8 | X | X | X | X | | |
| 21 | FH-RW-07-G-M-20150224 | 13.12 | | 1 | X | | | | | |
| 22 | FH-RW-07-G-B-20150224 | 13.14 | | 1 | X | | | | | |
| 23 | CM-RW-10-G-S-20150224 | 13.48 | | 3 | X | X | X | X | | |
| 24 | CM-RW-10-G-M-20150224 | 13.49 | | 2 | X | | | | | |
| 25 | CH-RW-10-G-B-20150224 | 13.51 | | 1 | X | | | | | |
| 26 | FB-20150224 | 14.43 | ↓ | 4 | X | X | | | | |
| 12 | | | | | | | | | | |
| 13 | | | | | | | | | | |
| 14 | | | | | | | | | | |
| 15 | | | | | | | | | | |

Notes:

Relinquished By: [Signature]
 Signature/Printed Name: _____
 Company: Anchor OEA
 Date/Time: 2/25/15 1140

Received By: [Signature]
 Signature/Printed Name: _____
 Company: ECF
 Date/Time: 2/25/15 1140

Relinquished By: [Signature]
 Signature/Printed Name: _____
 Company: ECF
 Date/Time: 2/25/15 1330

Received By: [Signature]
 Signature/Printed Name: _____
 Company: ECF
 Date/Time: 2/25/15 1330

Calscience

WORK ORDER #: 15-02- 1 8 9 7

SAMPLE RECEIPT FORM

Cooler 1 of 5

CLIENT: ANCHOR

DATE: 02/25/15

TEMPERATURE: Thermometer ID: SC4 (Criteria: 0.0 °C – 6.0 °C, not frozen except sediment/tissue)

Temperature 3.0 °C + 0.2 °C (CF) = 3.2 °C Blank Sample

Sample(s) outside temperature criteria (PM/APM contacted by: _____)

Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: Air Filter Checked by: 678

CUSTODY SEALS INTACT:

Cooler _____ No (Not Intact) Not Present N/A Checked by: 678

Sample _____ No (Not Intact) Not Present Checked by: 991

| SAMPLE CONDITION: | Yes | No | N/A |
|--|-------------------------------------|--------------------------|-------------------------------------|
| Chain-Of-Custody (COC) document(s) received with samples..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| COC document(s) received complete..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> Collection date/time, matrix, and/or # of containers logged in based on sample labels. <input type="checkbox"/> No analysis requested. <input type="checkbox"/> Not relinquished. <input type="checkbox"/> No date/time relinquished. | | | |
| Sampler's name indicated on COC..... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Sample container label(s) consistent with COC..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Sample container(s) intact and good condition..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Proper containers and sufficient volume for analyses requested..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Analyses received within holding time..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Aqueous samples received within 15-minute holding time | | | |
| <input type="checkbox"/> pH <input type="checkbox"/> Residual Chlorine <input type="checkbox"/> Dissolved Sulfides <input type="checkbox"/> Dissolved Oxygen..... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Proper preservation noted on COC or sample container..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> Unpreserved vials received for Volatiles analysis | | | |
| Volatile analysis container(s) free of headspace..... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Tedlar bag(s) free of condensation..... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| CONTAINER TYPE: | | | |
| Solid: <input type="checkbox"/> 4ozCGJ <input type="checkbox"/> 8ozCGJ <input type="checkbox"/> 16ozCGJ <input type="checkbox"/> Sleeve (____) <input type="checkbox"/> EnCores® <input type="checkbox"/> TerraCores® <input type="checkbox"/> _____ | | | |
| Aqueous: <input type="checkbox"/> VOA <input type="checkbox"/> VOAh <input type="checkbox"/> VOAna ₂ <input type="checkbox"/> 125AGB <input type="checkbox"/> 125AGBh <input type="checkbox"/> 125AGBp <input checked="" type="checkbox"/> 1AGB <input type="checkbox"/> 1AGBna ₂ <input type="checkbox"/> 1AGBs | | | |
| <input type="checkbox"/> 500AGB <input type="checkbox"/> 500AGJ <input type="checkbox"/> 500AGJs <input type="checkbox"/> 250AGB <input checked="" type="checkbox"/> 250CGB <input type="checkbox"/> 250CGBs <input checked="" type="checkbox"/> 1PB <input type="checkbox"/> 1PBna <input type="checkbox"/> 500PB | | | |
| <input checked="" type="checkbox"/> 250PB <input type="checkbox"/> 250PBn <input type="checkbox"/> 125PB <input type="checkbox"/> 125PBz _{nna} <input type="checkbox"/> 100PJ <input type="checkbox"/> 100PJna ₂ <input type="checkbox"/> _____ <input type="checkbox"/> _____ <input type="checkbox"/> _____ | | | |
| Air: <input type="checkbox"/> Tedlar® <input type="checkbox"/> Canister Other: <input type="checkbox"/> _____ Trip Blank Lot#: _____ Labeled/Checked by: <u>991</u> | | | |
| Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope Reviewed by: <u>802</u> | | | |
| Preservative: h: HCL n: HNO ₃ na ₂ : Na ₂ S ₂ O ₃ na: NaOH p: H ₃ PO ₄ s: H ₂ SO ₄ u: Ultra-pure z _{nna} : ZnAc ₂ +NaOH f: Filtered Scanned by: <u>802</u> | | | |

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Calscience

WORK ORDER #: 15-02-1894

SAMPLE RECEIPT FORM

Cooler 2 of 5

CLIENT: ANCHOR

DATE: 02/25/15

TEMPERATURE: Thermometer ID: SC4 (Criteria: 0.0 °C – 6.0 °C, not frozen except sediment/tissue)

Temperature 2.8 °C + 0.2 °C (CF) = 3.0 °C Blank Sample

Sample(s) outside temperature criteria (PM/APM contacted by: _____)

Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: Air Filter Checked by: 678

CUSTODY SEALS INTACT:

Cooler _____ No (Not Intact) Not Present N/A Checked by: 678

Sample _____ No (Not Intact) Not Present Checked by: 991

| SAMPLE CONDITION: | Yes | No | N/A |
|---|-------------------------------------|--------------------------|-------------------------------------|
| Chain-Of-Custody (COC) document(s) received with samples..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| COC document(s) received complete..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> Collection date/time, matrix, and/or # of containers logged in based on sample labels. | | | |
| <input type="checkbox"/> No analysis requested. <input type="checkbox"/> Not relinquished. <input type="checkbox"/> No date/time relinquished. | | | |
| Sampler's name indicated on COC..... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Sample container label(s) consistent with COC..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Sample container(s) intact and good condition..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Proper containers and sufficient volume for analyses requested..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Analyses received within holding time..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Aqueous samples received within 15-minute holding time | | | |
| <input type="checkbox"/> pH <input type="checkbox"/> Residual Chlorine <input type="checkbox"/> Dissolved Sulfides <input type="checkbox"/> Dissolved Oxygen..... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Proper preservation noted on COC or sample container..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> Unpreserved vials received for Volatiles analysis | | | |
| Volatile analysis container(s) free of headspace..... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Tedlar bag(s) free of condensation..... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| CONTAINER TYPE: | | | |
| Solid: <input type="checkbox"/> 4ozCGJ <input type="checkbox"/> 8ozCGJ <input type="checkbox"/> 16ozCGJ <input type="checkbox"/> Sleeve (____) <input type="checkbox"/> EnCores® <input type="checkbox"/> TerraCores® <input type="checkbox"/> _____ | | | |
| Aqueous: <input type="checkbox"/> VOA <input type="checkbox"/> VOAh <input type="checkbox"/> VOAna ₂ <input type="checkbox"/> 125AGB <input type="checkbox"/> 125AGBh <input type="checkbox"/> 125AGBp <input checked="" type="checkbox"/> 1AGB <input type="checkbox"/> 1AGBna ₂ <input type="checkbox"/> 1AGBs | | | |
| <input type="checkbox"/> 500AGB <input type="checkbox"/> 500AGJ <input type="checkbox"/> 500AGJs <input type="checkbox"/> 250AGB <input checked="" type="checkbox"/> 250CGB <input type="checkbox"/> 250CGBs <input checked="" type="checkbox"/> 1PB <input type="checkbox"/> 1PBna <input type="checkbox"/> 500PB | | | |
| <input checked="" type="checkbox"/> 250PB <input type="checkbox"/> 250PBn <input type="checkbox"/> 125PB <input type="checkbox"/> 125PBz _{na} <input type="checkbox"/> 100PJ <input type="checkbox"/> 100PJna ₂ <input type="checkbox"/> _____ <input type="checkbox"/> _____ <input type="checkbox"/> _____ | | | |
| Air: <input type="checkbox"/> Tedlar® <input type="checkbox"/> Canister Other: <input type="checkbox"/> _____ Trip Blank Lot#: _____ Labeled/Checked by: <u>991</u> | | | |
| Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope Reviewed by: <u>862</u> | | | |
| Preservative: h: HCL n: HNO ₃ na ₂ :Na ₂ S ₂ O ₃ na: NaOH p: H ₃ PO ₄ s: H ₂ SO ₄ u: Ultra-pure z _{na} : ZnAc ₂ +NaOH f: Filtered Scanned by: <u>802</u> | | | |

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SAMPLE RECEIPT FORM

Cooler 3 of 5

CLIENT: Anchor

DATE: 02/25/15

TEMPERATURE: Thermometer ID: SC4 (Criteria: 0.0 °C – 6.0 °C, not frozen except sediment/tissue)

Temperature 3.3 °C + 0.2 °C (CF) = 3.5 °C Blank Sample

Sample(s) outside temperature criteria (PM/APM contacted by: _____)

Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: Air Filter

Checked by: 678

CUSTODY SEALS INTACT:

Cooler _____ No (Not Intact) Not Present N/A

Sample _____ No (Not Intact) Not Present

Checked by: 678

Checked by: 991

SAMPLE CONDITION:

| | Yes | No | N/A |
|---|-------------------------------------|--------------------------|-------------------------------------|
| Chain-Of-Custody (COC) document(s) received with samples..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| COC document(s) received complete..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> Collection date/time, matrix, and/or # of containers logged in based on sample labels. | | | |
| <input type="checkbox"/> No analysis requested. <input type="checkbox"/> Not relinquished. <input type="checkbox"/> No date/time relinquished. | | | |
| Sampler's name indicated on COC..... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Sample container label(s) consistent with COC..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Sample container(s) intact and good condition..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Proper containers and sufficient volume for analyses requested..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Analyses received within holding time..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Aqueous samples received within 15-minute holding time | | | |
| <input type="checkbox"/> pH <input type="checkbox"/> Residual Chlorine <input type="checkbox"/> Dissolved Sulfides <input type="checkbox"/> Dissolved Oxygen..... | | | |
| Proper preservation noted on COC or sample container..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> Unpreserved vials received for Volatiles analysis | | | |
| Volatile analysis container(s) free of headspace..... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Tedlar bag(s) free of condensation..... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

CONTAINER TYPE:

Solid: 4ozCGJ 8ozCGJ 16ozCGJ Sleeve (____) EnCores® TerraCores® _____

Aqueous: VOA VOA_h VOA_{na2} 125AGB 125AGB_h 125AGB_p 1AGB 1AGB_{na2} 1AGB_s

500AGB 500AGJ 500AGJ_s 250AGB 250CGB 250CGB_s 1PB 1PB_{na} 500PB

250PB 250PB_n 125PB 125PB_z 100PJ 100PJ_{na2} _____ _____ _____

Air: Tedlar® Canister **Other:** _____ **Trip Blank Lot#:** _____ **Labeled/Checked by:** 991

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope **Reviewed by:** 802

Preservative: h: HCL n: HNO₃ na₂: Na₂S₂O₃ na: NaOH p: H₃PO₄ s: H₂SO₄ u: Ultra-pure z: ZnAc₂+NaOH f: Filtered **Scanned by:** 802

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SAMPLE RECEIPT FORM

Cooler 4 of 5

CLIENT: ANCUTOR

DATE: 02/25/15

TEMPERATURE: Thermometer ID: SC4 (Criteria: 0.0 °C – 6.0 °C, not frozen except sediment/tissue)

Temperature 3.1 °C + 0.2 °C (CF) = 3.3 °C Blank Sample

Sample(s) outside temperature criteria (PM/APM contacted by: _____)

Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: Air Filter

Checked by: 678

CUSTODY SEALS INTACT:

Cooler _____ No (Not Intact) Not Present N/A

Sample _____ No (Not Intact) Not Present

Checked by: 678

Checked by: 991

| SAMPLE CONDITION: | Yes | No | N/A |
|---|-------------------------------------|--------------------------|-------------------------------------|
| Chain-Of-Custody (COC) document(s) received with samples..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| COC document(s) received complete..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> Collection date/time, matrix, and/or # of containers logged in based on sample labels. | | | |
| <input type="checkbox"/> No analysis requested. <input type="checkbox"/> Not relinquished. <input type="checkbox"/> No date/time relinquished. | | | |
| Sampler's name indicated on COC..... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Sample container label(s) consistent with COC..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Sample container(s) intact and good condition..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Proper containers and sufficient volume for analyses requested..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Analyses received within holding time..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Aqueous samples received within 15-minute holding time | | | |
| <input type="checkbox"/> pH <input type="checkbox"/> Residual Chlorine <input type="checkbox"/> Dissolved Sulfides <input type="checkbox"/> Dissolved Oxygen..... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Proper preservation noted on COC or sample container..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> Unpreserved vials received for Volatiles analysis | | | |
| Volatile analysis container(s) free of headspace..... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Tedlar bag(s) free of condensation..... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

CONTAINER TYPE:

Solid: 4ozCGJ 8ozCGJ 16ozCGJ Sleeve (____) EnCores® TerraCores® _____

Aqueous: VOA VOA_h VOA_{na2} 125AGB 125AGB_h 125AGB_p 1AGB 1AGB_{na2} 1AGB_s

500AGB 500AGJ 500AGJ_s 250AGB 250CGB 250CGB_s 1PB 1PB_{na} 500PB

250PB 250PB_n 125PB 125PB_z 100PJ 100PJ_{na2} _____ _____ _____

Air: Tedlar® Canister **Other:** _____ **Trip Blank Lot#:** _____ **Labeled/Checked by:** 991

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope **Reviewed by:** 802

Preservative: h: HCL n: HNO₃ na₂:Na₂S₂O₃ na: NaOH p: H₃PO₄ s: H₂SO₄ u: Ultra-pure z_{na}: ZnAc₂+NaOH f: Filtered **Scanned by:** 802

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Calscience

WORK ORDER #: 15-02-1894

SAMPLE RECEIPT FORM

Cooler 5 of 5

CLIENT: ANCHOR

DATE: 02/26/15

TEMPERATURE: Thermometer ID: SC4 (Criteria: 0.0 °C – 6.0 °C, not frozen except sediment/tissue)

Temperature 3.2 °C + 0.2 °C (CF) = 3.4 °C Blank Sample

Sample(s) outside temperature criteria (PM/APM contacted by: _____)

Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: Air Filter Checked by: 678

CUSTODY SEALS INTACT:

Cooler _____ No (Not Intact) Not Present N/A Checked by: 678

Sample _____ No (Not Intact) Not Present Checked by: 991

| SAMPLE CONDITION: | Yes | No | N/A |
|---|-------------------------------------|--------------------------|-------------------------------------|
| Chain-Of-Custody (COC) document(s) received with samples..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| COC document(s) received complete..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> Collection date/time, matrix, and/or # of containers logged in based on sample labels. | | | |
| <input type="checkbox"/> No analysis requested. <input type="checkbox"/> Not relinquished. <input type="checkbox"/> No date/time relinquished. | | | |
| Sampler's name indicated on COC..... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Sample container label(s) consistent with COC..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Sample container(s) intact and good condition..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Proper containers and sufficient volume for analyses requested..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Analyses received within holding time..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Aqueous samples received within 15-minute holding time | | | |
| <input type="checkbox"/> pH <input type="checkbox"/> Residual Chlorine <input type="checkbox"/> Dissolved Sulfides <input type="checkbox"/> Dissolved Oxygen..... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Proper preservation noted on COC or sample container..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> Unpreserved vials received for Volatiles analysis | | | |
| Volatile analysis container(s) free of headspace..... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Tedlar bag(s) free of condensation..... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

CONTAINER TYPE:

Solid: 4ozCGJ 8ozCGJ 16ozCGJ Sleeve (____) EnCores® TerraCores® _____

Aqueous: VOA VOA_h VOA_{na2} 125AGB 125AGB_h 125AGB_p 1AGB 1AGB_{na2} 1AGB_s

500AGB 500AGJ 500AGJ_s 250AGB 250CGB 250CGB_s 1PB 1PB_{na} 500PB

250PB 250PB_n 125PB 125PB_{znna} 100PJ 100PJ_{na2} _____ _____ _____

Air: Tedlar® Canister **Other:** _____ **Trip Blank Lot#:** _____ **Labeled/Checked by:** 991

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope **Reviewed by:** 202

Preservative: h: HCL n: HNO₃ na₂: Na₂S₂O₃ na: NaOH p: H₃PO₄ s: H₂SO₄ u: Ultra-pure znna: ZnAc₂+NaOH f: Filtered **Scanned by:** 862

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WORK ORDER NUMBER: 15-02-1742

The difference is service



AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: ANCHOR QEA, LLC

Client Project Name: GWMA - TMDL Compliance Monitoring

Attention: Andy Martin
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Approved for release on 03/13/2015 by:
Danielle Gonsman
Project Manager

ResultLink ▶

Email your PM ▶



Eurofins Calscience, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

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Client Project Name: GWMA - TMDL Compliance Monitoring
 Work Order Number: 15-02-1742

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Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 02/24/15. They were assigned to Work Order 15-02-1742.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of ≤ 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.



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Sample Summary

| | |
|------------------------------|---|
| Client: ANCHOR QEA, LLC | Work Order: 15-02-1742 |
| 27201 Puerta Real, Suite 350 | Project Name: GWMA - TMDL Compliance Monitoring |
| Mission Viejo, CA 92691-8306 | PO Number: |
| | Date/Time Received: 02/24/15 14:08 |
| | Number of Containers: 91 |

Attn: Andy Martin

| Sample Identification | Lab Number | Collection Date and Time | Number of Containers | Matrix |
|-------------------------|---------------|--------------------------|----------------------|-----------|
| LE-RW-22-G-S-20150224 | 15-02-1742-1 | 02/24/15 08:20 | 8 | Sea Water |
| LE-RW-22-G-M-20150224 | 15-02-1742-2 | 02/24/15 08:20 | 1 | Sea Water |
| LE-RW-22-G-B-20150224 | 15-02-1742-3 | 02/24/15 08:20 | 1 | Sea Water |
| LE-RW-1022-G-S-20150224 | 15-02-1742-4 | 02/24/15 08:50 | 7 | Sea Water |
| LE-RW-21-G-S-20150224 | 15-02-1742-5 | 02/24/15 09:15 | 8 | Sea Water |
| LE-RW-21-G-M-20150224 | 15-02-1742-6 | 02/24/15 09:15 | 1 | Sea Water |
| LE-RW-21-G-B-20150224 | 15-02-1742-7 | 02/24/15 09:15 | 1 | Sea Water |
| LE-RW-21-G-S-20150224 | 15-02-1742-8 | 02/24/15 09:40 | 8 | Sea Water |
| SP-RW-18-G-S-20150224 | 15-02-1742-9 | 02/24/15 06:00 | 8 | Sea Water |
| SP-RW-18-G-M-20150224 | 15-02-1742-10 | 02/24/15 10:00 | 1 | Sea Water |
| SP-RW-18-G-B-20150224 | 15-02-1742-11 | 02/24/15 10:00 | 1 | Sea Water |
| OB-RW-17-G-S-20150224 | 15-02-1742-12 | 02/24/15 10:45 | 8 | Sea Water |
| OB-RW-17-G-M-20150224 | 15-02-1742-13 | 02/24/15 10:45 | 1 | Sea Water |
| OB-RW-17-G-B-20150224 | 15-02-1742-14 | 02/24/15 10:45 | 1 | Sea Water |
| SP-RW-20-G-S-20150224 | 15-02-1742-15 | 02/24/15 11:40 | 8 | Sea Water |
| SP-RW-20-G-M-20150224 | 15-02-1742-16 | 02/24/15 11:40 | 1 | Sea Water |
| SP-RW-1020-G-M-20150224 | 15-02-1742-17 | 02/24/15 11:40 | 1 | Sea Water |
| SP-RW-19-G-S-20150224 | 15-02-1742-18 | 02/24/15 12:15 | 8 | Sea Water |
| SP-RW-19-G-M-20150224 | 15-02-1742-19 | 02/24/15 12:15 | 1 | Sea Water |
| SP-RW-19-G-B-20150224 | 15-02-1742-20 | 02/24/15 12:15 | 1 | Sea Water |
| EB20150224 | 15-02-1742-21 | 02/24/15 12:45 | 7 | Sea Water |
| SP-RW-20-G-B-20150224 | 15-02-1742-23 | 02/24/15 11:40 | 1 | Sea Water |


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Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 02/24/15
Work Order: 15-02-1742
Preparation: N/A
Method: SM 2540 D
Units: mg/L

Project: GWMA - TMDL Compliance Monitoring

Page 1 of 4

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| LE-RW-22-G-S-20150224 | 15-02-1742-1-H | 02/24/15 08:20 | Sea Water | N/A | 03/02/15 | 03/02/15 15:00 | F0302TSSL3 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 9.6 | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| LE-RW-22-G-M-20150224 | 15-02-1742-2-A | 02/24/15 08:20 | Sea Water | N/A | 03/02/15 | 03/02/15 15:00 | F0302TSSL3 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 8.5 | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| LE-RW-22-G-B-20150224 | 15-02-1742-3-A | 02/24/15 08:20 | Sea Water | N/A | 03/02/15 | 03/02/15 15:00 | F0302TSSL3 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 6.7 | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| LE-RW-21-G-S-20150224 | 15-02-1742-5-H | 02/24/15 09:15 | Sea Water | N/A | 03/02/15 | 03/02/15 15:00 | F0302TSSL3 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 5.9 | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| LE-RW-21-G-M-20150224 | 15-02-1742-6-A | 02/24/15 09:15 | Sea Water | N/A | 03/02/15 | 03/02/15 15:00 | F0302TSSL3 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 7.9 | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| LE-RW-21-G-B-20150224 | 15-02-1742-7-A | 02/24/15 09:15 | Sea Water | N/A | 03/02/15 | 03/02/15 15:00 | F0302TSSL3 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 12 | 1.0 | 0.95 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 02/24/15
Work Order: 15-02-1742
Preparation: N/A
Method: SM 2540 D
Units: mg/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| LE-RW-21-G-S-20150224 | 15-02-1742-8-H | 02/24/15 09:40 | Sea Water | N/A | 03/02/15 | 03/02/15 15:00 | F0302TSSL3 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 9.1 | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| SP-RW-18-G-S-20150224 | 15-02-1742-9-H | 02/24/15 06:00 | Sea Water | N/A | 03/02/15 | 03/02/15 15:00 | F0302TSSL3 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 2.7 | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| SP-RW-18-G-M-20150224 | 15-02-1742-10-A | 02/24/15 10:00 | Sea Water | N/A | 03/02/15 | 03/02/15 15:00 | F0302TSSL3 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | ND | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| SP-RW-18-G-B-20150224 | 15-02-1742-11-A | 02/24/15 10:00 | Sea Water | N/A | 03/02/15 | 03/02/15 15:00 | F0302TSSL3 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 12 | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OB-RW-17-G-S-20150224 | 15-02-1742-12-H | 02/24/15 10:45 | Sea Water | N/A | 03/02/15 | 03/02/15 15:00 | F0302TSSL3 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | ND | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OB-RW-17-G-M-20150224 | 15-02-1742-13-A | 02/24/15 10:45 | Sea Water | N/A | 03/02/15 | 03/02/15 15:00 | F0302TSSL3 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | ND | 1.0 | 0.95 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 02/24/15
Work Order: 15-02-1742
Preparation: N/A
Method: SM 2540 D
Units: mg/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OB-RW-17-G-B-20150224 | 15-02-1742-14-A | 02/24/15 10:45 | Sea Water | N/A | 03/02/15 | 03/02/15 15:00 | F0302TSSL3 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | ND | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| SP-RW-20-G-S-20150224 | 15-02-1742-15-H | 02/24/15 11:40 | Sea Water | N/A | 03/02/15 | 03/02/15 15:00 | F0302TSSL3 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | ND | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| SP-RW-20-G-M-20150224 | 15-02-1742-16-A | 02/24/15 11:40 | Sea Water | N/A | 03/02/15 | 03/02/15 15:00 | F0302TSSL3 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | ND | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-------------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| SP-RW-1020-G-M-20150224 | 15-02-1742-17-A | 02/24/15 11:40 | Sea Water | N/A | 03/02/15 | 03/02/15 15:00 | F0302TSSL3 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | ND | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| SP-RW-19-G-S-20150224 | 15-02-1742-18-H | 02/24/15 12:15 | Sea Water | N/A | 03/02/15 | 03/02/15 15:00 | F0302TSSL3 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | ND | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| SP-RW-19-G-M-20150224 | 15-02-1742-19-A | 02/24/15 12:15 | Sea Water | N/A | 03/02/15 | 03/02/15 15:00 | F0302TSSL3 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | ND | 1.0 | 0.95 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 02/24/15
Work Order: 15-02-1742
Preparation: N/A
Method: SM 2540 D
Units: mg/L

Project: GWMA - TMDL Compliance Monitoring

Page 4 of 4

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| SP-RW-19-G-B-20150224 | 15-02-1742-20-A | 02/24/15 12:15 | Sea Water | N/A | 03/02/15 | 03/02/15 15:00 | F0302TSSL3 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | ND | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| SP-RW-20-G-B-20150224 | 15-02-1742-23-A | 02/24/15 11:40 | Sea Water | N/A | 02/27/15 | 02/27/15 18:00 | F0227TSSL1 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 3.1 | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|---------|------------|---------------|--------------------|-------------|
| Method Blank | 099-09-010-7076 | N/A | Aqueous | N/A | 02/27/15 | 02/27/15 18:00 | F0227TSSL1 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | ND | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|---------|------------|---------------|--------------------|-------------|
| Method Blank | 099-09-010-7075 | N/A | Aqueous | N/A | 03/02/15 | 03/02/15 15:00 | F0302TSSL3 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | ND | 1.0 | 0.95 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 02/24/15
Work Order: 15-02-1742
Preparation: EPA 1631E Total
Method: EPA 1631E
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

Page 1 of 2

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| LE-RW-22-G-S-20150224 | 15-02-1742-1-B | 02/24/15 08:20 | Sea Water | Hg/AF 1 | 03/02/15 | 03/02/15 00:00 | 150302L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|----------|----------|------|------------|
| Mercury | 0.0114 | 0.000500 | 0.000113 | 1.00 | B |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-------------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| LE-RW-1022-G-S-20150224 | 15-02-1742-4-B | 02/24/15 08:50 | Sea Water | Hg/AF 1 | 03/02/15 | 03/02/15 00:00 | 150302L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|---------|----------|----------|------|------------|
| Mercury | 0.00991 | 0.000500 | 0.000113 | 1.00 | B |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| LE-RW-21-G-S-20150224 | 15-02-1742-5-B | 02/24/15 09:15 | Sea Water | Hg/AF 1 | 03/02/15 | 03/02/15 00:00 | 150302L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|---------|----------|----------|------|------------|
| Mercury | 0.00893 | 0.000500 | 0.000113 | 1.00 | B |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| LE-RW-21-G-S-20150224 | 15-02-1742-8-B | 02/24/15 09:40 | Sea Water | Hg/AF 1 | 03/02/15 | 03/02/15 00:00 | 150302L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|---------|----------|----------|------|------------|
| Mercury | 0.00928 | 0.000500 | 0.000113 | 1.00 | B |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| SP-RW-18-G-S-20150224 | 15-02-1742-9-B | 02/24/15 06:00 | Sea Water | Hg/AF 1 | 03/02/15 | 03/02/15 00:00 | 150302L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|----------|----------|------|------------|
| Mercury | 0.0156 | 0.000500 | 0.000113 | 1.00 | B |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OB-RW-17-G-S-20150224 | 15-02-1742-12-B | 02/24/15 10:45 | Sea Water | Hg/AF 1 | 03/02/15 | 03/02/15 00:00 | 150302L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|----------|----------|------|------------|
| Mercury | 0.0106 | 0.000500 | 0.000113 | 1.00 | B |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 02/24/15
Work Order: 15-02-1742
Preparation: EPA 1631E Total
Method: EPA 1631E
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

Page 2 of 2

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| SP-RW-20-G-S-20150224 | 15-02-1742-15-B | 02/24/15 11:40 | Sea Water | Hg/AF 1 | 03/02/15 | 03/02/15 00:00 | 150302L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|----------|----------|------|------------|
| Mercury | 0.0364 | 0.000500 | 0.000113 | 1.00 | B |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| SP-RW-19-G-S-20150224 | 15-02-1742-18-B | 02/24/15 12:15 | Sea Water | Hg/AF 1 | 03/02/15 | 03/02/15 00:00 | 150302L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|---------|----------|----------|------|------------|
| Mercury | 0.00603 | 0.000500 | 0.000113 | 1.00 | B |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| EB20150224 | 15-02-1742-21-B | 02/24/15 12:45 | Sea Water | Hg/AF 1 | 03/02/15 | 03/02/15 00:00 | 150302L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|---------|----------|----------|------|------------|
| Mercury | 0.00255 | 0.000500 | 0.000113 | 1.00 | B |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|---------|------------|---------------|--------------------|-------------|
| Method Blank | 099-15-224-76 | N/A | Aqueous | Hg/AF 1 | 03/02/15 | 03/02/15 00:00 | 150302L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|----------|----------|----------|------|------------|
| Mercury | 0.000262 | 0.000500 | 0.000113 | 1.00 | J |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 02/24/15
Work Order: 15-02-1742
Preparation: Filtered
Method: EPA 1631E
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

Page 1 of 2

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| LE-RW-22-G-S-20150224 | 15-02-1742-1-C | 02/24/15 08:20 | Sea Water | Hg/AF 1 | 03/02/15 | 03/02/15 00:00 | 150302L01F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|---------|----------|----------|------|------------|
| Mercury | 0.00430 | 0.000500 | 0.000113 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-------------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| LE-RW-1022-G-S-20150224 | 15-02-1742-4-C | 02/24/15 08:50 | Sea Water | Hg/AF 1 | 03/02/15 | 03/02/15 00:00 | 150302L01F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|---------|----------|----------|------|------------|
| Mercury | 0.00203 | 0.000500 | 0.000113 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| LE-RW-21-G-S-20150224 | 15-02-1742-5-C | 02/24/15 09:15 | Sea Water | Hg/AF 1 | 03/02/15 | 03/02/15 00:00 | 150302L01F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|---------|----------|----------|------|------------|
| Mercury | 0.00323 | 0.000500 | 0.000113 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| LE-RW-21-G-S-20150224 | 15-02-1742-8-C | 02/24/15 09:40 | Sea Water | Hg/AF 1 | 03/02/15 | 03/02/15 00:00 | 150302L01F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|---------|----------|----------|------|------------|
| Mercury | 0.00572 | 0.000500 | 0.000113 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| SP-RW-18-G-S-20150224 | 15-02-1742-9-C | 02/24/15 06:00 | Sea Water | Hg/AF 1 | 03/02/15 | 03/02/15 00:00 | 150302L01F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|---------|----------|----------|------|------------|
| Mercury | 0.00430 | 0.000500 | 0.000113 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OB-RW-17-G-S-20150224 | 15-02-1742-12-C | 02/24/15 10:45 | Sea Water | Hg/AF 1 | 03/02/15 | 03/02/15 00:00 | 150302L01F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|---------|----------|----------|------|------------|
| Mercury | 0.00267 | 0.000500 | 0.000113 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 02/24/15
Work Order: 15-02-1742
Preparation: Filtered
Method: EPA 1631E
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

Page 2 of 2

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| SP-RW-20-G-S-20150224 | 15-02-1742-15-C | 02/24/15 11:40 | Sea Water | Hg/AF 1 | 03/02/15 | 03/02/15 00:00 | 150302L01F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|---------|----------|----------|------|------------|
| Mercury | 0.00402 | 0.000500 | 0.000113 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| SP-RW-19-G-S-20150224 | 15-02-1742-18-C | 02/24/15 12:15 | Sea Water | Hg/AF 1 | 03/02/15 | 03/02/15 00:00 | 150302L01F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|---------|----------|----------|------|------------|
| Mercury | 0.00216 | 0.000500 | 0.000113 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| EB20150224 | 15-02-1742-21-C | 02/24/15 12:45 | Sea Water | Hg/AF 1 | 03/02/15 | 03/02/15 00:00 | 150302L01F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|----------|----------|------|------------|
| Mercury | ND | 0.000500 | 0.000113 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|---------|------------|---------------|--------------------|-------------|
| Method Blank | 099-15-226-58 | N/A | Aqueous | Hg/AF 1 | 03/02/15 | 03/02/15 00:00 | 150302L01F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|----------|----------|------|------------|
| Mercury | ND | 0.000500 | 0.000113 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 02/24/15
Work Order: 15-02-1742
Preparation: EPA 3005A Total
Method: EPA 1640
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

Page 1 of 4

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| LE-RW-22-G-S-20150224 | 15-02-1742-1-D | 02/24/15 08:20 | Sea Water | ICP/MS 05 | 02/26/15 | 02/27/15 04:54 | 150226L03 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0635 | 0.0300 | 0.00567 | 1.00 | |
| Chromium | 0.451 | 0.500 | 0.164 | 1.00 | J |
| Copper | 2.58 | 0.0300 | 0.00898 | 1.00 | B |
| Lead | 1.46 | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 9.07 | 0.500 | 0.0736 | 1.00 | B |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-------------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| LE-RW-1022-G-S-20150224 | 15-02-1742-4-D | 02/24/15 08:50 | Sea Water | ICP/MS 05 | 02/26/15 | 02/27/15 05:02 | 150226L03 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0661 | 0.0300 | 0.00567 | 1.00 | |
| Chromium | 0.422 | 0.500 | 0.164 | 1.00 | J |
| Copper | 3.31 | 0.0300 | 0.00898 | 1.00 | B |
| Lead | 0.966 | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 9.90 | 0.500 | 0.0736 | 1.00 | B |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| LE-RW-21-G-S-20150224 | 15-02-1742-5-D | 02/24/15 09:15 | Sea Water | ICP/MS 05 | 02/26/15 | 02/27/15 05:10 | 150226L03 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0707 | 0.0300 | 0.00567 | 1.00 | |
| Chromium | 0.455 | 0.500 | 0.164 | 1.00 | J |
| Copper | 3.21 | 0.0300 | 0.00898 | 1.00 | B |
| Lead | 1.35 | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 11.1 | 0.500 | 0.0736 | 1.00 | B |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 02/24/15
Work Order: 15-02-1742
Preparation: EPA 3005A Total
Method: EPA 1640
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| LE-RW-21-G-S-20150224 | 15-02-1742-8-D | 02/24/15 09:40 | Sea Water | ICP/MS 05 | 02/26/15 | 02/27/15 06:29 | 150226L03 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0776 | 0.0300 | 0.00567 | 1.00 | |
| Chromium | 0.546 | 0.500 | 0.164 | 1.00 | |
| Copper | 3.47 | 0.0300 | 0.00898 | 1.00 | B |
| Lead | 1.85 | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 11.4 | 0.500 | 0.0736 | 1.00 | B |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| SP-RW-18-G-S-20150224 | 15-02-1742-9-D | 02/24/15 06:00 | Sea Water | ICP/MS 05 | 02/26/15 | 02/27/15 05:58 | 150226L03 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0647 | 0.0300 | 0.00567 | 1.00 | |
| Chromium | 0.407 | 0.500 | 0.164 | 1.00 | J |
| Copper | 2.54 | 0.0300 | 0.00898 | 1.00 | B |
| Lead | 1.64 | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 8.64 | 0.500 | 0.0736 | 1.00 | B |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OB-RW-17-G-S-20150224 | 15-02-1742-12-D | 02/24/15 10:45 | Sea Water | ICP/MS 05 | 02/26/15 | 02/27/15 06:05 | 150226L03 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0506 | 0.0300 | 0.00567 | 1.00 | |
| Chromium | 0.273 | 0.500 | 0.164 | 1.00 | J |
| Copper | 1.34 | 0.0300 | 0.00898 | 1.00 | B |
| Lead | 0.659 | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 5.40 | 0.500 | 0.0736 | 1.00 | B |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 02/24/15
Work Order: 15-02-1742
Preparation: EPA 3005A Total
Method: EPA 1640
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| SP-RW-20-G-S-20150224 | 15-02-1742-15-D | 02/24/15 11:40 | Sea Water | ICP/MS 05 | 02/26/15 | 02/27/15 06:13 | 150226L03 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0455 | 0.0300 | 0.00567 | 1.00 | |
| Chromium | 0.277 | 0.500 | 0.164 | 1.00 | J |
| Copper | 1.11 | 0.0300 | 0.00898 | 1.00 | B |
| Lead | 0.360 | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 4.10 | 0.500 | 0.0736 | 1.00 | B |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| SP-RW-19-G-S-20150224 | 15-02-1742-18-D | 02/24/15 12:15 | Sea Water | ICP/MS 05 | 02/26/15 | 02/27/15 06:21 | 150226L03 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0445 | 0.0300 | 0.00567 | 1.00 | |
| Chromium | 0.261 | 0.500 | 0.164 | 1.00 | J |
| Copper | 0.782 | 0.0300 | 0.00898 | 1.00 | B |
| Lead | 0.772 | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 2.52 | 0.500 | 0.0736 | 1.00 | B |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| EB20150224 | 15-02-1742-21-D | 02/24/15 12:45 | Sea Water | ICP/MS 05 | 02/26/15 | 03/05/15 20:09 | 150226L03 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0169 | 0.0300 | 0.00567 | 1.00 | J |
| Chromium | ND | 0.500 | 0.164 | 1.00 | |
| Copper | 0.0261 | 0.0300 | 0.00898 | 1.00 | B,J |
| Lead | ND | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 0.236 | 0.500 | 0.0736 | 1.00 | B,J |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 02/24/15
Work Order: 15-02-1742
Preparation: EPA 3005A Total
Method: EPA 1640
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|---------|------------|---------------|--------------------|-------------|
| Method Blank | 099-13-067-493 | N/A | Aqueous | ICP/MS 05 | 02/26/15 | 02/26/15 19:22 | 150226L03 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|---------------|-----------|------------|-----------|-------------------|
| Cadmium | ND | 0.0300 | 0.00567 | 1.00 | |
| Chromium | ND | 0.500 | 0.164 | 1.00 | |
| Copper | 0.0268 | 0.0300 | 0.00898 | 1.00 | J |
| Lead | ND | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 0.149 | 0.500 | 0.0736 | 1.00 | J |


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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 02/24/15
Work Order: 15-02-1742
Preparation: EPA 3005A Filt.
Method: EPA 1640
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| LE-RW-22-G-S-20150224 | 15-02-1742-1-C | 02/24/15 08:20 | Sea Water | ICP/MS 05 | 02/26/15 | 02/27/15 03:03 | 150226L03F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0427 | 0.0300 | 0.00567 | 1.00 | |
| Chromium | ND | 0.500 | 0.164 | 1.00 | |
| Copper | 0.735 | 0.0300 | 0.00898 | 1.00 | B |
| Lead | 0.154 | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 4.24 | 0.500 | 0.0736 | 1.00 | B |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-------------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| LE-RW-1022-G-S-20150224 | 15-02-1742-4-C | 02/24/15 08:50 | Sea Water | ICP/MS 05 | 02/26/15 | 02/27/15 03:11 | 150226L03F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0522 | 0.0300 | 0.00567 | 1.00 | |
| Chromium | 0.237 | 0.500 | 0.164 | 1.00 | J |
| Copper | 1.78 | 0.0300 | 0.00898 | 1.00 | B |
| Lead | 0.194 | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 7.43 | 0.500 | 0.0736 | 1.00 | B |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| LE-RW-21-G-S-20150224 | 15-02-1742-5-C | 02/24/15 09:15 | Sea Water | ICP/MS 05 | 02/26/15 | 02/27/15 03:19 | 150226L03F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0535 | 0.0300 | 0.00567 | 1.00 | |
| Chromium | 0.251 | 0.500 | 0.164 | 1.00 | J |
| Copper | 1.74 | 0.0300 | 0.00898 | 1.00 | B |
| Lead | 0.209 | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 7.13 | 0.500 | 0.0736 | 1.00 | B |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 02/24/15
Work Order: 15-02-1742
Preparation: EPA 3005A Filt.
Method: EPA 1640
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| LE-RW-21-G-S-20150224 | 15-02-1742-8-C | 02/24/15 09:40 | Sea Water | ICP/MS 05 | 02/26/15 | 02/27/15 04:38 | 150226L03F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0506 | 0.0300 | 0.00567 | 1.00 | |
| Chromium | 0.206 | 0.500 | 0.164 | 1.00 | J |
| Copper | 1.24 | 0.0300 | 0.00898 | 1.00 | B |
| Lead | 0.216 | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 5.93 | 0.500 | 0.0736 | 1.00 | B |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| SP-RW-18-G-S-20150224 | 15-02-1742-9-C | 02/24/15 06:00 | Sea Water | ICP/MS 05 | 02/26/15 | 02/27/15 04:06 | 150226L03F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0479 | 0.0300 | 0.00567 | 1.00 | |
| Chromium | 0.187 | 0.500 | 0.164 | 1.00 | J |
| Copper | 1.08 | 0.0300 | 0.00898 | 1.00 | B |
| Lead | 0.203 | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 5.56 | 0.500 | 0.0736 | 1.00 | B |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OB-RW-17-G-S-20150224 | 15-02-1742-12-C | 02/24/15 10:45 | Sea Water | ICP/MS 05 | 02/26/15 | 02/27/15 04:14 | 150226L03F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0537 | 0.0300 | 0.00567 | 1.00 | |
| Chromium | 0.213 | 0.500 | 0.164 | 1.00 | J |
| Copper | 1.04 | 0.0300 | 0.00898 | 1.00 | B |
| Lead | 0.201 | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 4.51 | 0.500 | 0.0736 | 1.00 | B |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 02/24/15
Work Order: 15-02-1742
Preparation: EPA 3005A Filt.
Method: EPA 1640
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| SP-RW-20-G-S-20150224 | 15-02-1742-15-C | 02/24/15 11:40 | Sea Water | ICP/MS 05 | 02/26/15 | 02/27/15 04:22 | 150226L03F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0481 | 0.0300 | 0.00567 | 1.00 | |
| Chromium | 0.196 | 0.500 | 0.164 | 1.00 | J |
| Copper | 0.777 | 0.0300 | 0.00898 | 1.00 | B |
| Lead | 0.108 | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 3.44 | 0.500 | 0.0736 | 1.00 | B |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| SP-RW-19-G-S-20150224 | 15-02-1742-18-C | 02/24/15 12:15 | Sea Water | ICP/MS 05 | 02/26/15 | 02/27/15 04:30 | 150226L03F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0514 | 0.0300 | 0.00567 | 1.00 | |
| Chromium | 0.216 | 0.500 | 0.164 | 1.00 | J |
| Copper | 0.558 | 0.0300 | 0.00898 | 1.00 | B |
| Lead | 0.438 | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 1.92 | 0.500 | 0.0736 | 1.00 | B |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| EB20150224 | 15-02-1742-21-C | 02/24/15 12:45 | Sea Water | ICP/MS 05 | 02/26/15 | 03/09/15 17:54 | 150226L03F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0106 | 0.0300 | 0.00567 | 1.00 | J |
| Chromium | ND | 0.500 | 0.164 | 1.00 | |
| Copper | 1.01 | 0.0300 | 0.00898 | 1.00 | B |
| Lead | 0.294 | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 0.539 | 0.500 | 0.0736 | 1.00 | B |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 02/24/15
Work Order: 15-02-1742
Preparation: EPA 3005A Filt.
Method: EPA 1640
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|---------|------------|---------------|--------------------|-------------|
| Method Blank | 099-15-823-131 | N/A | Aqueous | ICP/MS 05 | 02/26/15 | 02/26/15 19:30 | 150226L03F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | ND | 0.0300 | 0.00567 | 1.00 | |
| Chromium | ND | 0.500 | 0.164 | 1.00 | |
| Copper | 0.0179 | 0.0300 | 0.00898 | 1.00 | J |
| Lead | ND | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 0.143 | 0.500 | 0.0736 | 1.00 | J |

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 02/24/15
Work Order: 15-02-1742
Preparation: EPA 3510C
Method: EPA 8081A
Units: ng/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| LE-RW-22-G-S-20150224 | 15-02-1742-1-F | 02/24/15 08:20 | Sea Water | GC 44 | 03/02/15 | 03/06/15 14:42 | 150302L18 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------------------------|----------|----------------|------------|------|------------|
| 2,4'-DDD | ND | 1.9 | 0.56 | 1.00 | |
| 2,4'-DDE | ND | 1.9 | 0.47 | 1.00 | |
| 2,4'-DDT | ND | 1.9 | 0.66 | 1.00 | |
| 4,4'-DDD | ND | 1.9 | 0.53 | 1.00 | |
| 4,4'-DDE | ND | 1.9 | 0.46 | 1.00 | |
| 4,4'-DDT | ND | 1.9 | 0.53 | 1.00 | |
| Alpha Chlordane | ND | 1.9 | 0.47 | 1.00 | |
| Cis-nonachlor | ND | 1.9 | 0.48 | 1.00 | |
| Dieldrin | ND | 1.9 | 0.53 | 1.00 | |
| Gamma Chlordane | ND | 1.9 | 0.47 | 1.00 | |
| Oxychlordane | ND | 1.9 | 0.60 | 1.00 | |
| Toxaphene | ND | 24 | 7.9 | 1.00 | |
| Trans-nonachlor | ND | 1.9 | 0.54 | 1.00 | |
| Surrogate | Rec. (%) | Control Limits | Qualifiers | | |
| Decachlorobiphenyl | 106 | 50-150 | | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 102 | 50-150 | | | |

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 02/24/15
 Work Order: 15-02-1742
 Preparation: EPA 3510C
 Method: EPA 8081A
 Units: ng/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-------------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| LE-RW-1022-G-S-20150224 | 15-02-1742-4-E | 02/24/15 08:50 | Sea Water | GC 44 | 03/02/15 | 03/06/15 14:57 | 150302L18 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------------------------|----------|----------------|------------|------|------------|
| 2,4'-DDD | ND | 1.9 | 0.56 | 1.00 | |
| 2,4'-DDE | ND | 1.9 | 0.47 | 1.00 | |
| 2,4'-DDT | ND | 1.9 | 0.66 | 1.00 | |
| 4,4'-DDD | ND | 1.9 | 0.53 | 1.00 | |
| 4,4'-DDE | ND | 1.9 | 0.46 | 1.00 | |
| 4,4'-DDT | ND | 1.9 | 0.53 | 1.00 | |
| Alpha Chlordane | ND | 1.9 | 0.47 | 1.00 | |
| Cis-nonachlor | ND | 1.9 | 0.48 | 1.00 | |
| Dieldrin | ND | 1.9 | 0.53 | 1.00 | |
| Gamma Chlordane | ND | 1.9 | 0.47 | 1.00 | |
| Oxychlordane | ND | 1.9 | 0.60 | 1.00 | |
| Toxaphene | ND | 24 | 7.9 | 1.00 | |
| Trans-nonachlor | ND | 1.9 | 0.54 | 1.00 | |
| Surrogate | Rec. (%) | Control Limits | Qualifiers | | |
| Decachlorobiphenyl | 107 | 50-150 | | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 94 | 50-150 | | | |



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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 02/24/15
Work Order: 15-02-1742
Preparation: EPA 3510C
Method: EPA 8081A
Units: ng/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| LE-RW-21-G-S-20150224 | 15-02-1742-5-F | 02/24/15 09:15 | Sea Water | GC 44 | 03/02/15 | 03/06/15 15:11 | 150302L18 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------------------------|----------|----------------|------------|------|------------|
| 2,4'-DDD | ND | 2.0 | 0.57 | 1.00 | |
| 2,4'-DDE | ND | 2.0 | 0.48 | 1.00 | |
| 2,4'-DDT | ND | 2.0 | 0.67 | 1.00 | |
| 4,4'-DDD | ND | 2.0 | 0.54 | 1.00 | |
| 4,4'-DDE | ND | 2.0 | 0.47 | 1.00 | |
| 4,4'-DDT | ND | 2.0 | 0.54 | 1.00 | |
| Alpha Chlordane | ND | 2.0 | 0.48 | 1.00 | |
| Cis-nonachlor | ND | 2.0 | 0.49 | 1.00 | |
| Dieldrin | ND | 2.0 | 0.54 | 1.00 | |
| Gamma Chlordane | ND | 2.0 | 0.48 | 1.00 | |
| Oxychlordane | ND | 2.0 | 0.61 | 1.00 | |
| Toxaphene | ND | 25 | 8.1 | 1.00 | |
| Trans-nonachlor | ND | 2.0 | 0.55 | 1.00 | |
| Surrogate | Rec. (%) | Control Limits | Qualifiers | | |
| Decachlorobiphenyl | 106 | 50-150 | | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 102 | 50-150 | | | |

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 02/24/15
 Work Order: 15-02-1742
 Preparation: EPA 3510C
 Method: EPA 8081A
 Units: ng/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| LE-RW-21-G-S-20150224 | 15-02-1742-8-F | 02/24/15 09:40 | Sea Water | GC 44 | 03/02/15 | 03/06/15 15:25 | 150302L18 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------------------------|----------|----------------|------------|------|------------|
| 2,4'-DDD | ND | 2.0 | 0.58 | 1.00 | |
| 2,4'-DDE | ND | 2.0 | 0.49 | 1.00 | |
| 2,4'-DDT | ND | 2.0 | 0.69 | 1.00 | |
| 4,4'-DDD | ND | 2.0 | 0.55 | 1.00 | |
| 4,4'-DDE | ND | 2.0 | 0.48 | 1.00 | |
| 4,4'-DDT | ND | 2.0 | 0.55 | 1.00 | |
| Alpha Chlordane | ND | 2.0 | 0.49 | 1.00 | |
| Cis-nonachlor | ND | 2.0 | 0.50 | 1.00 | |
| Dieldrin | ND | 2.0 | 0.55 | 1.00 | |
| Gamma Chlordane | ND | 2.0 | 0.49 | 1.00 | |
| Oxychlordane | ND | 2.0 | 0.63 | 1.00 | |
| Toxaphene | ND | 25 | 8.2 | 1.00 | |
| Trans-nonachlor | ND | 2.0 | 0.56 | 1.00 | |
| Surrogate | Rec. (%) | Control Limits | Qualifiers | | |
| Decachlorobiphenyl | 115 | 50-150 | | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 102 | 50-150 | | | |



 Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 02/24/15
Work Order: 15-02-1742
Preparation: EPA 3510C
Method: EPA 8081A
Units: ng/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| SP-RW-18-G-S-20150224 | 15-02-1742-9-F | 02/24/15 06:00 | Sea Water | GC 44 | 03/02/15 | 03/06/15 15:40 | 150302L18 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------------------------|----------|----------------|------------|------|------------|
| 2,4'-DDD | ND | 1.9 | 0.56 | 1.00 | |
| 2,4'-DDE | ND | 1.9 | 0.47 | 1.00 | |
| 2,4'-DDT | ND | 1.9 | 0.66 | 1.00 | |
| 4,4'-DDD | ND | 1.9 | 0.53 | 1.00 | |
| 4,4'-DDE | ND | 1.9 | 0.46 | 1.00 | |
| 4,4'-DDT | ND | 1.9 | 0.53 | 1.00 | |
| Alpha Chlordane | ND | 1.9 | 0.47 | 1.00 | |
| Cis-nonachlor | ND | 1.9 | 0.48 | 1.00 | |
| Dieldrin | ND | 1.9 | 0.53 | 1.00 | |
| Gamma Chlordane | ND | 1.9 | 0.47 | 1.00 | |
| Oxychlordane | ND | 1.9 | 0.60 | 1.00 | |
| Toxaphene | ND | 24 | 7.9 | 1.00 | |
| Trans-nonachlor | ND | 1.9 | 0.54 | 1.00 | |
| Surrogate | Rec. (%) | Control Limits | Qualifiers | | |
| Decachlorobiphenyl | 143 | 50-150 | | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 131 | 50-150 | | | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

| | | |
|------------------------------|----------------|------------|
| ANCHOR QEA, LLC | Date Received: | 02/24/15 |
| 27201 Puerta Real, Suite 350 | Work Order: | 15-02-1742 |
| Mission Viejo, CA 92691-8306 | Preparation: | EPA 3510C |
| | Method: | EPA 8081A |
| | Units: | ng/L |

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OB-RW-17-G-S-20150224 | 15-02-1742-12-F | 02/24/15 10:45 | Sea Water | GC 44 | 03/02/15 | 03/06/15 15:54 | 150302L18 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------------------------|----------|----------------|------------|------|------------|
| 2,4'-DDD | ND | 2.1 | 0.61 | 1.00 | |
| 2,4'-DDE | ND | 2.1 | 0.51 | 1.00 | |
| 2,4'-DDT | ND | 2.1 | 0.72 | 1.00 | |
| 4,4'-DDD | ND | 2.1 | 0.58 | 1.00 | |
| 4,4'-DDE | ND | 2.1 | 0.50 | 1.00 | |
| 4,4'-DDT | ND | 2.1 | 0.58 | 1.00 | |
| Alpha Chlordane | ND | 2.1 | 0.52 | 1.00 | |
| Cis-nonachlor | ND | 2.1 | 0.53 | 1.00 | |
| Dieldrin | ND | 2.1 | 0.58 | 1.00 | |
| Gamma Chlordane | ND | 2.1 | 0.51 | 1.00 | |
| Oxychlordane | ND | 2.1 | 0.66 | 1.00 | |
| Toxaphene | ND | 26 | 8.7 | 1.00 | |
| Trans-nonachlor | ND | 2.1 | 0.59 | 1.00 | |
| Surrogate | Rec. (%) | Control Limits | Qualifiers | | |
| Decachlorobiphenyl | 138 | 50-150 | | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 131 | 50-150 | | | |



 Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 02/24/15
 Work Order: 15-02-1742
 Preparation: EPA 3510C
 Method: EPA 8081A
 Units: ng/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| SP-RW-20-G-S-20150224 | 15-02-1742-15-F | 02/24/15 11:40 | Sea Water | GC 44 | 03/02/15 | 03/06/15 16:08 | 150302L18 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------------------------|----------|----------------|------------|------|------------|
| 2,4'-DDD | ND | 2.0 | 0.58 | 1.00 | |
| 2,4'-DDE | ND | 2.0 | 0.48 | 1.00 | |
| 2,4'-DDT | ND | 2.0 | 0.68 | 1.00 | |
| 4,4'-DDD | ND | 2.0 | 0.54 | 1.00 | |
| 4,4'-DDE | ND | 2.0 | 0.47 | 1.00 | |
| 4,4'-DDT | ND | 2.0 | 0.55 | 1.00 | |
| Alpha Chlordane | ND | 2.0 | 0.49 | 1.00 | |
| Cis-nonachlor | ND | 2.0 | 0.50 | 1.00 | |
| Dieldrin | ND | 2.0 | 0.54 | 1.00 | |
| Gamma Chlordane | ND | 2.0 | 0.48 | 1.00 | |
| Oxychlordane | ND | 2.0 | 0.62 | 1.00 | |
| Toxaphene | ND | 25 | 8.2 | 1.00 | |
| Trans-nonachlor | ND | 2.0 | 0.55 | 1.00 | |
| Surrogate | Rec. (%) | Control Limits | Qualifiers | | |
| Decachlorobiphenyl | 137 | 50-150 | | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 131 | 50-150 | | | |



 Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 02/24/15
Work Order: 15-02-1742
Preparation: EPA 3510C
Method: EPA 8081A
Units: ng/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| SP-RW-19-G-S-20150224 | 15-02-1742-18-F | 02/24/15 12:15 | Sea Water | GC 44 | 03/02/15 | 03/06/15 16:23 | 150302L18 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------------------------|----------|----------------|------------|------|------------|
| 2,4'-DDD | ND | 2.0 | 0.58 | 1.00 | |
| 2,4'-DDE | ND | 2.0 | 0.49 | 1.00 | |
| 2,4'-DDT | ND | 2.0 | 0.69 | 1.00 | |
| 4,4'-DDD | ND | 2.0 | 0.55 | 1.00 | |
| 4,4'-DDE | ND | 2.0 | 0.48 | 1.00 | |
| 4,4'-DDT | ND | 2.0 | 0.55 | 1.00 | |
| Alpha Chlordane | ND | 2.0 | 0.49 | 1.00 | |
| Cis-nonachlor | ND | 2.0 | 0.50 | 1.00 | |
| Dieldrin | ND | 2.0 | 0.55 | 1.00 | |
| Gamma Chlordane | ND | 2.0 | 0.49 | 1.00 | |
| Oxychlordane | ND | 2.0 | 0.63 | 1.00 | |
| Toxaphene | ND | 25 | 8.2 | 1.00 | |
| Trans-nonachlor | ND | 2.0 | 0.56 | 1.00 | |
| Surrogate | Rec. (%) | Control Limits | Qualifiers | | |
| Decachlorobiphenyl | 112 | 50-150 | | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 105 | 50-150 | | | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 02/24/15
Work Order: 15-02-1742
Preparation: EPA 3510C
Method: EPA 8081A
Units: ng/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| EB20150224 | 15-02-1742-21-F | 02/24/15 12:45 | Sea Water | GC 44 | 03/02/15 | 03/06/15 16:37 | 150302L18 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------------------------|----------|----------------|------------|------|------------|
| 2,4'-DDD | ND | 1.9 | 0.57 | 1.00 | |
| 2,4'-DDE | ND | 1.9 | 0.47 | 1.00 | |
| 2,4'-DDT | ND | 1.9 | 0.67 | 1.00 | |
| 4,4'-DDD | ND | 1.9 | 0.53 | 1.00 | |
| 4,4'-DDE | ND | 1.9 | 0.46 | 1.00 | |
| 4,4'-DDT | ND | 1.9 | 0.54 | 1.00 | |
| Alpha Chlordane | ND | 1.9 | 0.48 | 1.00 | |
| Cis-nonachlor | ND | 1.9 | 0.49 | 1.00 | |
| Dieldrin | ND | 1.9 | 0.53 | 1.00 | |
| Gamma Chlordane | ND | 1.9 | 0.47 | 1.00 | |
| Oxychlordane | ND | 1.9 | 0.61 | 1.00 | |
| Toxaphene | ND | 24 | 8.0 | 1.00 | |
| Trans-nonachlor | ND | 1.9 | 0.54 | 1.00 | |
| Surrogate | Rec. (%) | Control Limits | Qualifiers | | |
| Decachlorobiphenyl | 108 | 50-150 | | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 90 | 50-150 | | | |

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 02/24/15
Work Order: 15-02-1742
Preparation: EPA 3510C
Method: EPA 8081A
Units: ng/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|---------|------------|---------------|--------------------|-------------|
| Method Blank | 099-16-036-16 | N/A | Aqueous | GC 44 | 03/02/15 | 03/06/15 14:28 | 150302L18 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------------------------|----------|----------------|------------|------|------------|
| 2,4'-DDD | ND | 2.0 | 0.58 | 1.00 | |
| 2,4'-DDE | ND | 2.0 | 0.49 | 1.00 | |
| 2,4'-DDT | ND | 2.0 | 0.69 | 1.00 | |
| 4,4'-DDD | ND | 2.0 | 0.55 | 1.00 | |
| 4,4'-DDE | ND | 2.0 | 0.48 | 1.00 | |
| 4,4'-DDT | ND | 2.0 | 0.55 | 1.00 | |
| Alpha Chlordane | ND | 2.0 | 0.49 | 1.00 | |
| Cis-nonachlor | ND | 2.0 | 0.50 | 1.00 | |
| Dieldrin | ND | 2.0 | 0.55 | 1.00 | |
| Gamma Chlordane | ND | 2.0 | 0.49 | 1.00 | |
| Oxychlordane | ND | 2.0 | 0.63 | 1.00 | |
| Toxaphene | ND | 25 | 8.2 | 1.00 | |
| Trans-nonachlor | ND | 2.0 | 0.56 | 1.00 | |
| Surrogate | Rec. (%) | Control Limits | Qualifiers | | |
| Decachlorobiphenyl | 108 | 50-150 | | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 100 | 50-150 | | | |

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 02/24/15
Work Order: 15-02-1742
Preparation: EPA 3510C
Method: EPA 8270C SIM PCB Congeners
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

Page 1 of 20

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| LE-RW-22-G-S-20150224 | 15-02-1742-1-G | 02/24/15 08:20 | Sea Water | GC/MS HHH | 03/02/15 | 03/05/15 22:55 | 150302L21 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------|--------|--------|---------|------|------------|
| PCB018 | ND | 0.0019 | 0.00040 | 1.00 | |
| PCB028 | ND | 0.0019 | 0.00064 | 1.00 | |
| PCB037 | ND | 0.0019 | 0.00046 | 1.00 | |
| PCB044 | ND | 0.0019 | 0.00075 | 1.00 | |
| PCB049 | ND | 0.0019 | 0.00075 | 1.00 | |
| PCB052 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB066 | ND | 0.0019 | 0.00055 | 1.00 | |
| PCB070 | ND | 0.0019 | 0.00037 | 1.00 | |
| PCB074 | ND | 0.0019 | 0.00041 | 1.00 | |
| PCB077 | ND | 0.0019 | 0.00063 | 1.00 | |
| PCB081 | ND | 0.0019 | 0.00047 | 1.00 | |
| PCB087 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB099 | ND | 0.0019 | 0.00058 | 1.00 | |
| PCB101 | ND | 0.0019 | 0.00056 | 1.00 | |
| PCB105 | ND | 0.0019 | 0.00036 | 1.00 | |
| PCB110 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB114 | ND | 0.0019 | 0.00042 | 1.00 | |
| PCB118 | ND | 0.0019 | 0.00047 | 1.00 | |
| PCB119 | ND | 0.0019 | 0.00041 | 1.00 | |
| PCB123 | ND | 0.0019 | 0.00074 | 1.00 | |
| PCB126 | ND | 0.0019 | 0.00052 | 1.00 | |
| PCB128 | ND | 0.0019 | 0.00068 | 1.00 | |
| PCB132/153 | ND | 0.0038 | 0.0011 | 1.00 | |
| PCB138/158 | ND | 0.0038 | 0.0011 | 1.00 | |
| PCB149 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB151 | ND | 0.0019 | 0.00059 | 1.00 | |
| PCB156 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB157 | ND | 0.0019 | 0.00072 | 1.00 | |
| PCB167 | ND | 0.0019 | 0.00083 | 1.00 | |
| PCB168 | ND | 0.0019 | 0.00032 | 1.00 | |
| PCB169 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB170 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB177 | ND | 0.0019 | 0.00055 | 1.00 | |
| PCB180 | ND | 0.0019 | 0.00069 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 02/24/15
 Work Order: 15-02-1742
 Preparation: EPA 3510C
 Method: EPA 8270C SIM PCB Congeners
 Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|-----------------|-----------------------|-------------------|-----------|-------------------|
| PCB183 | ND | 0.0019 | 0.00051 | 1.00 | |
| PCB187 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB189 | ND | 0.0019 | 0.00038 | 1.00 | |
| PCB194 | ND | 0.0019 | 0.00040 | 1.00 | |
| PCB195 | ND | 0.0019 | 0.00034 | 1.00 | |
| PCB201 | ND | 0.0019 | 0.00070 | 1.00 | |
| PCB206 | ND | 0.0019 | 0.00025 | 1.00 | |
| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> | | |
| 2-Fluorobiphenyl | 90 | 50-150 | | | |
| p-Terphenyl-d14 | 84 | 50-150 | | | |



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 02/24/15
Work Order: 15-02-1742
Preparation: EPA 3510C
Method: EPA 8270C SIM PCB Congeners
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-------------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| LE-RW-1022-G-S-20150224 | 15-02-1742-4-G | 02/24/15 08:50 | Sea Water | GC/MS HHH | 03/02/15 | 03/05/15 23:20 | 150302L21 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------|--------|--------|---------|------|------------|
| PCB018 | ND | 0.0019 | 0.00040 | 1.00 | |
| PCB028 | ND | 0.0019 | 0.00064 | 1.00 | |
| PCB037 | ND | 0.0019 | 0.00046 | 1.00 | |
| PCB044 | ND | 0.0019 | 0.00075 | 1.00 | |
| PCB049 | ND | 0.0019 | 0.00075 | 1.00 | |
| PCB052 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB066 | ND | 0.0019 | 0.00055 | 1.00 | |
| PCB070 | ND | 0.0019 | 0.00037 | 1.00 | |
| PCB074 | ND | 0.0019 | 0.00041 | 1.00 | |
| PCB077 | ND | 0.0019 | 0.00063 | 1.00 | |
| PCB081 | ND | 0.0019 | 0.00047 | 1.00 | |
| PCB087 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB099 | ND | 0.0019 | 0.00058 | 1.00 | |
| PCB101 | ND | 0.0019 | 0.00056 | 1.00 | |
| PCB105 | ND | 0.0019 | 0.00036 | 1.00 | |
| PCB110 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB114 | ND | 0.0019 | 0.00042 | 1.00 | |
| PCB118 | ND | 0.0019 | 0.00047 | 1.00 | |
| PCB119 | ND | 0.0019 | 0.00041 | 1.00 | |
| PCB123 | ND | 0.0019 | 0.00074 | 1.00 | |
| PCB126 | ND | 0.0019 | 0.00052 | 1.00 | |
| PCB128 | ND | 0.0019 | 0.00068 | 1.00 | |
| PCB132/153 | ND | 0.0038 | 0.0011 | 1.00 | |
| PCB138/158 | ND | 0.0038 | 0.0011 | 1.00 | |
| PCB149 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB151 | ND | 0.0019 | 0.00059 | 1.00 | |
| PCB156 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB157 | ND | 0.0019 | 0.00072 | 1.00 | |
| PCB167 | ND | 0.0019 | 0.00083 | 1.00 | |
| PCB168 | ND | 0.0019 | 0.00032 | 1.00 | |
| PCB169 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB170 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB177 | ND | 0.0019 | 0.00055 | 1.00 | |
| PCB180 | ND | 0.0019 | 0.00069 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 02/24/15
 Work Order: 15-02-1742
 Preparation: EPA 3510C
 Method: EPA 8270C SIM PCB Congeners
 Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|-----------------|-----------------------|-------------------|-----------|-------------------|
| PCB183 | ND | 0.0019 | 0.00051 | 1.00 | |
| PCB187 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB189 | ND | 0.0019 | 0.00038 | 1.00 | |
| PCB194 | ND | 0.0019 | 0.00040 | 1.00 | |
| PCB195 | ND | 0.0019 | 0.00034 | 1.00 | |
| PCB201 | ND | 0.0019 | 0.00070 | 1.00 | |
| PCB206 | ND | 0.0019 | 0.00025 | 1.00 | |
| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> | | |
| 2-Fluorobiphenyl | 79 | 50-150 | | | |
| p-Terphenyl-d14 | 74 | 50-150 | | | |

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 02/24/15
Work Order: 15-02-1742
Preparation: EPA 3510C
Method: EPA 8270C SIM PCB Congeners
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| LE-RW-21-G-S-20150224 | 15-02-1742-5-G | 02/24/15 09:15 | Sea Water | GC/MS HHH | 03/02/15 | 03/05/15 23:46 | 150302L21 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------|--------|--------|---------|------|------------|
| PCB018 | ND | 0.0019 | 0.00040 | 1.00 | |
| PCB028 | ND | 0.0019 | 0.00064 | 1.00 | |
| PCB037 | ND | 0.0019 | 0.00046 | 1.00 | |
| PCB044 | ND | 0.0019 | 0.00076 | 1.00 | |
| PCB049 | ND | 0.0019 | 0.00076 | 1.00 | |
| PCB052 | ND | 0.0019 | 0.00050 | 1.00 | |
| PCB066 | ND | 0.0019 | 0.00056 | 1.00 | |
| PCB070 | ND | 0.0019 | 0.00037 | 1.00 | |
| PCB074 | ND | 0.0019 | 0.00042 | 1.00 | |
| PCB077 | ND | 0.0019 | 0.00063 | 1.00 | |
| PCB081 | ND | 0.0019 | 0.00047 | 1.00 | |
| PCB087 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB099 | ND | 0.0019 | 0.00059 | 1.00 | |
| PCB101 | ND | 0.0019 | 0.00056 | 1.00 | |
| PCB105 | ND | 0.0019 | 0.00037 | 1.00 | |
| PCB110 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB114 | ND | 0.0019 | 0.00043 | 1.00 | |
| PCB118 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB119 | ND | 0.0019 | 0.00042 | 1.00 | |
| PCB123 | ND | 0.0019 | 0.00074 | 1.00 | |
| PCB126 | ND | 0.0019 | 0.00053 | 1.00 | |
| PCB128 | ND | 0.0019 | 0.00068 | 1.00 | |
| PCB132/153 | ND | 0.0039 | 0.0011 | 1.00 | |
| PCB138/158 | ND | 0.0039 | 0.0011 | 1.00 | |
| PCB149 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB151 | ND | 0.0019 | 0.00059 | 1.00 | |
| PCB156 | ND | 0.0019 | 0.00050 | 1.00 | |
| PCB157 | ND | 0.0019 | 0.00073 | 1.00 | |
| PCB167 | ND | 0.0019 | 0.00084 | 1.00 | |
| PCB168 | ND | 0.0019 | 0.00032 | 1.00 | |
| PCB169 | ND | 0.0019 | 0.00055 | 1.00 | |
| PCB170 | ND | 0.0019 | 0.00055 | 1.00 | |
| PCB177 | ND | 0.0019 | 0.00055 | 1.00 | |
| PCB180 | ND | 0.0019 | 0.00070 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 02/24/15
 Work Order: 15-02-1742
 Preparation: EPA 3510C
 Method: EPA 8270C SIM PCB Congeners
 Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|-----------------|-----------------------|-------------------|-----------|-------------------|
| PCB183 | ND | 0.0019 | 0.00052 | 1.00 | |
| PCB187 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB189 | ND | 0.0019 | 0.00039 | 1.00 | |
| PCB194 | ND | 0.0019 | 0.00041 | 1.00 | |
| PCB195 | ND | 0.0019 | 0.00034 | 1.00 | |
| PCB201 | ND | 0.0019 | 0.00070 | 1.00 | |
| PCB206 | ND | 0.0019 | 0.00025 | 1.00 | |
| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> | | |
| 2-Fluorobiphenyl | 78 | 50-150 | | | |
| p-Terphenyl-d14 | 79 | 50-150 | | | |

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 02/24/15
Work Order: 15-02-1742
Preparation: EPA 3510C
Method: EPA 8270C SIM PCB Congeners
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| LE-RW-21-G-S-20150224 | 15-02-1742-8-G | 02/24/15 09:40 | Sea Water | GC/MS HHH | 03/02/15 | 03/06/15 00:11 | 150302L21 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------|--------|--------|---------|------|------------|
| PCB018 | ND | 0.0020 | 0.00041 | 1.00 | |
| PCB028 | ND | 0.0020 | 0.00065 | 1.00 | |
| PCB037 | ND | 0.0020 | 0.00047 | 1.00 | |
| PCB044 | ND | 0.0020 | 0.00076 | 1.00 | |
| PCB049 | ND | 0.0020 | 0.00077 | 1.00 | |
| PCB052 | ND | 0.0020 | 0.00050 | 1.00 | |
| PCB066 | ND | 0.0020 | 0.00056 | 1.00 | |
| PCB070 | ND | 0.0020 | 0.00037 | 1.00 | |
| PCB074 | ND | 0.0020 | 0.00042 | 1.00 | |
| PCB077 | ND | 0.0020 | 0.00064 | 1.00 | |
| PCB081 | ND | 0.0020 | 0.00047 | 1.00 | |
| PCB087 | ND | 0.0020 | 0.00049 | 1.00 | |
| PCB099 | ND | 0.0020 | 0.00059 | 1.00 | |
| PCB101 | ND | 0.0020 | 0.00057 | 1.00 | |
| PCB105 | ND | 0.0020 | 0.00037 | 1.00 | |
| PCB110 | ND | 0.0020 | 0.00049 | 1.00 | |
| PCB114 | ND | 0.0020 | 0.00043 | 1.00 | |
| PCB118 | ND | 0.0020 | 0.00048 | 1.00 | |
| PCB119 | ND | 0.0020 | 0.00042 | 1.00 | |
| PCB123 | ND | 0.0020 | 0.00075 | 1.00 | |
| PCB126 | ND | 0.0020 | 0.00053 | 1.00 | |
| PCB128 | ND | 0.0020 | 0.00069 | 1.00 | |
| PCB132/153 | ND | 0.0039 | 0.0012 | 1.00 | |
| PCB138/158 | ND | 0.0039 | 0.0011 | 1.00 | |
| PCB149 | ND | 0.0020 | 0.00050 | 1.00 | |
| PCB151 | ND | 0.0020 | 0.00060 | 1.00 | |
| PCB156 | ND | 0.0020 | 0.00050 | 1.00 | |
| PCB157 | ND | 0.0020 | 0.00074 | 1.00 | |
| PCB167 | ND | 0.0020 | 0.00085 | 1.00 | |
| PCB168 | ND | 0.0020 | 0.00032 | 1.00 | |
| PCB169 | ND | 0.0020 | 0.00055 | 1.00 | |
| PCB170 | ND | 0.0020 | 0.00055 | 1.00 | |
| PCB177 | ND | 0.0020 | 0.00056 | 1.00 | |
| PCB180 | ND | 0.0020 | 0.00070 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 02/24/15
 Work Order: 15-02-1742
 Preparation: EPA 3510C
 Method: EPA 8270C SIM PCB Congeners
 Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|-----------------|-----------------------|-------------------|-----------|-------------------|
| PCB183 | ND | 0.0020 | 0.00052 | 1.00 | |
| PCB187 | ND | 0.0020 | 0.00055 | 1.00 | |
| PCB189 | ND | 0.0020 | 0.00039 | 1.00 | |
| PCB194 | ND | 0.0020 | 0.00041 | 1.00 | |
| PCB195 | ND | 0.0020 | 0.00035 | 1.00 | |
| PCB201 | ND | 0.0020 | 0.00071 | 1.00 | |
| PCB206 | ND | 0.0020 | 0.00025 | 1.00 | |
| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> | | |
| 2-Fluorobiphenyl | 84 | 50-150 | | | |
| p-Terphenyl-d14 | 82 | 50-150 | | | |



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Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 02/24/15
Work Order: 15-02-1742
Preparation: EPA 3510C
Method: EPA 8270C SIM PCB Congeners
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| SP-RW-18-G-S-20150224 | 15-02-1742-9-G | 02/24/15 06:00 | Sea Water | GC/MS HHH | 03/02/15 | 03/06/15 00:36 | 150302L21 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------|--------|--------|---------|------|------------|
| PCB018 | ND | 0.0020 | 0.00042 | 1.00 | |
| PCB028 | ND | 0.0020 | 0.00066 | 1.00 | |
| PCB037 | ND | 0.0020 | 0.00048 | 1.00 | |
| PCB044 | ND | 0.0020 | 0.00078 | 1.00 | |
| PCB049 | ND | 0.0020 | 0.00078 | 1.00 | |
| PCB052 | ND | 0.0020 | 0.00051 | 1.00 | |
| PCB066 | ND | 0.0020 | 0.00057 | 1.00 | |
| PCB070 | ND | 0.0020 | 0.00038 | 1.00 | |
| PCB074 | ND | 0.0020 | 0.00043 | 1.00 | |
| PCB077 | ND | 0.0020 | 0.00065 | 1.00 | |
| PCB081 | ND | 0.0020 | 0.00048 | 1.00 | |
| PCB087 | ND | 0.0020 | 0.00050 | 1.00 | |
| PCB099 | ND | 0.0020 | 0.00060 | 1.00 | |
| PCB101 | ND | 0.0020 | 0.00058 | 1.00 | |
| PCB105 | ND | 0.0020 | 0.00038 | 1.00 | |
| PCB110 | ND | 0.0020 | 0.00050 | 1.00 | |
| PCB114 | ND | 0.0020 | 0.00044 | 1.00 | |
| PCB118 | ND | 0.0020 | 0.00049 | 1.00 | |
| PCB119 | ND | 0.0020 | 0.00043 | 1.00 | |
| PCB123 | ND | 0.0020 | 0.00077 | 1.00 | |
| PCB126 | ND | 0.0020 | 0.00055 | 1.00 | |
| PCB128 | ND | 0.0020 | 0.00070 | 1.00 | |
| PCB132/153 | ND | 0.0040 | 0.0012 | 1.00 | |
| PCB138/158 | ND | 0.0040 | 0.0011 | 1.00 | |
| PCB149 | ND | 0.0020 | 0.00050 | 1.00 | |
| PCB151 | ND | 0.0020 | 0.00061 | 1.00 | |
| PCB156 | ND | 0.0020 | 0.00051 | 1.00 | |
| PCB157 | ND | 0.0020 | 0.00075 | 1.00 | |
| PCB167 | ND | 0.0020 | 0.00087 | 1.00 | |
| PCB168 | ND | 0.0020 | 0.00033 | 1.00 | |
| PCB169 | ND | 0.0020 | 0.00056 | 1.00 | |
| PCB170 | ND | 0.0020 | 0.00056 | 1.00 | |
| PCB177 | ND | 0.0020 | 0.00057 | 1.00 | |
| PCB180 | ND | 0.0020 | 0.00072 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 02/24/15
 Work Order: 15-02-1742
 Preparation: EPA 3510C
 Method: EPA 8270C SIM PCB Congeners
 Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|-----------------|-----------------------|-------------------|-----------|-------------------|
| PCB183 | ND | 0.0020 | 0.00053 | 1.00 | |
| PCB187 | ND | 0.0020 | 0.00056 | 1.00 | |
| PCB189 | ND | 0.0020 | 0.00040 | 1.00 | |
| PCB194 | ND | 0.0020 | 0.00042 | 1.00 | |
| PCB195 | ND | 0.0020 | 0.00035 | 1.00 | |
| PCB201 | ND | 0.0020 | 0.00072 | 1.00 | |
| PCB206 | ND | 0.0020 | 0.00026 | 1.00 | |
| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> | | |
| 2-Fluorobiphenyl | 71 | 50-150 | | | |
| p-Terphenyl-d14 | 70 | 50-150 | | | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 02/24/15
Work Order: 15-02-1742
Preparation: EPA 3510C
Method: EPA 8270C SIM PCB Congeners
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OB-RW-17-G-S-20150224 | 15-02-1742-12-G | 02/24/15 10:45 | Sea Water | GC/MS HHH | 03/02/15 | 03/06/15 01:01 | 150302L21 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------|--------|--------|---------|------|------------|
| PCB018 | ND | 0.0020 | 0.00041 | 1.00 | |
| PCB028 | ND | 0.0020 | 0.00065 | 1.00 | |
| PCB037 | ND | 0.0020 | 0.00047 | 1.00 | |
| PCB044 | ND | 0.0020 | 0.00076 | 1.00 | |
| PCB049 | ND | 0.0020 | 0.00077 | 1.00 | |
| PCB052 | ND | 0.0020 | 0.00050 | 1.00 | |
| PCB066 | ND | 0.0020 | 0.00056 | 1.00 | |
| PCB070 | ND | 0.0020 | 0.00037 | 1.00 | |
| PCB074 | ND | 0.0020 | 0.00042 | 1.00 | |
| PCB077 | ND | 0.0020 | 0.00064 | 1.00 | |
| PCB081 | ND | 0.0020 | 0.00047 | 1.00 | |
| PCB087 | ND | 0.0020 | 0.00049 | 1.00 | |
| PCB099 | ND | 0.0020 | 0.00059 | 1.00 | |
| PCB101 | ND | 0.0020 | 0.00057 | 1.00 | |
| PCB105 | ND | 0.0020 | 0.00037 | 1.00 | |
| PCB110 | ND | 0.0020 | 0.00049 | 1.00 | |
| PCB114 | ND | 0.0020 | 0.00043 | 1.00 | |
| PCB118 | ND | 0.0020 | 0.00048 | 1.00 | |
| PCB119 | ND | 0.0020 | 0.00042 | 1.00 | |
| PCB123 | ND | 0.0020 | 0.00075 | 1.00 | |
| PCB126 | ND | 0.0020 | 0.00053 | 1.00 | |
| PCB128 | ND | 0.0020 | 0.00069 | 1.00 | |
| PCB132/153 | ND | 0.0039 | 0.0012 | 1.00 | |
| PCB138/158 | ND | 0.0039 | 0.0011 | 1.00 | |
| PCB149 | ND | 0.0020 | 0.00050 | 1.00 | |
| PCB151 | ND | 0.0020 | 0.00060 | 1.00 | |
| PCB156 | ND | 0.0020 | 0.00050 | 1.00 | |
| PCB157 | ND | 0.0020 | 0.00074 | 1.00 | |
| PCB167 | ND | 0.0020 | 0.00085 | 1.00 | |
| PCB168 | ND | 0.0020 | 0.00032 | 1.00 | |
| PCB169 | ND | 0.0020 | 0.00055 | 1.00 | |
| PCB170 | ND | 0.0020 | 0.00055 | 1.00 | |
| PCB177 | ND | 0.0020 | 0.00056 | 1.00 | |
| PCB180 | ND | 0.0020 | 0.00070 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 02/24/15
 Work Order: 15-02-1742
 Preparation: EPA 3510C
 Method: EPA 8270C SIM PCB Congeners
 Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|-----------------|-----------------------|-------------------|-----------|-------------------|
| PCB183 | ND | 0.0020 | 0.00052 | 1.00 | |
| PCB187 | ND | 0.0020 | 0.00055 | 1.00 | |
| PCB189 | ND | 0.0020 | 0.00039 | 1.00 | |
| PCB194 | ND | 0.0020 | 0.00041 | 1.00 | |
| PCB195 | ND | 0.0020 | 0.00035 | 1.00 | |
| PCB201 | ND | 0.0020 | 0.00071 | 1.00 | |
| PCB206 | ND | 0.0020 | 0.00025 | 1.00 | |
| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> | | |
| 2-Fluorobiphenyl | 87 | 50-150 | | | |
| p-Terphenyl-d14 | 82 | 50-150 | | | |

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 02/24/15
Work Order: 15-02-1742
Preparation: EPA 3510C
Method: EPA 8270C SIM PCB Congeners
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| SP-RW-20-G-S-20150224 | 15-02-1742-15-G | 02/24/15 11:40 | Sea Water | GC/MS HHH | 03/02/15 | 03/06/15 01:26 | 150302L21 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------|--------|--------|---------|------|------------|
| PCB018 | ND | 0.0020 | 0.00042 | 1.00 | |
| PCB028 | ND | 0.0020 | 0.00066 | 1.00 | |
| PCB037 | ND | 0.0020 | 0.00048 | 1.00 | |
| PCB044 | ND | 0.0020 | 0.00078 | 1.00 | |
| PCB049 | ND | 0.0020 | 0.00078 | 1.00 | |
| PCB052 | ND | 0.0020 | 0.00051 | 1.00 | |
| PCB066 | ND | 0.0020 | 0.00057 | 1.00 | |
| PCB070 | ND | 0.0020 | 0.00038 | 1.00 | |
| PCB074 | ND | 0.0020 | 0.00043 | 1.00 | |
| PCB077 | ND | 0.0020 | 0.00065 | 1.00 | |
| PCB081 | ND | 0.0020 | 0.00048 | 1.00 | |
| PCB087 | ND | 0.0020 | 0.00050 | 1.00 | |
| PCB099 | ND | 0.0020 | 0.00060 | 1.00 | |
| PCB101 | ND | 0.0020 | 0.00058 | 1.00 | |
| PCB105 | ND | 0.0020 | 0.00038 | 1.00 | |
| PCB110 | ND | 0.0020 | 0.00050 | 1.00 | |
| PCB114 | ND | 0.0020 | 0.00044 | 1.00 | |
| PCB118 | ND | 0.0020 | 0.00049 | 1.00 | |
| PCB119 | ND | 0.0020 | 0.00043 | 1.00 | |
| PCB123 | ND | 0.0020 | 0.00077 | 1.00 | |
| PCB126 | ND | 0.0020 | 0.00055 | 1.00 | |
| PCB128 | ND | 0.0020 | 0.00070 | 1.00 | |
| PCB132/153 | ND | 0.0040 | 0.0012 | 1.00 | |
| PCB138/158 | ND | 0.0040 | 0.0011 | 1.00 | |
| PCB149 | ND | 0.0020 | 0.00050 | 1.00 | |
| PCB151 | ND | 0.0020 | 0.00061 | 1.00 | |
| PCB156 | ND | 0.0020 | 0.00051 | 1.00 | |
| PCB157 | ND | 0.0020 | 0.00075 | 1.00 | |
| PCB167 | ND | 0.0020 | 0.00087 | 1.00 | |
| PCB168 | ND | 0.0020 | 0.00033 | 1.00 | |
| PCB169 | ND | 0.0020 | 0.00056 | 1.00 | |
| PCB170 | ND | 0.0020 | 0.00056 | 1.00 | |
| PCB177 | ND | 0.0020 | 0.00057 | 1.00 | |
| PCB180 | ND | 0.0020 | 0.00072 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 02/24/15
 Work Order: 15-02-1742
 Preparation: EPA 3510C
 Method: EPA 8270C SIM PCB Congeners
 Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|-----------------|-----------------------|-------------------|-----------|-------------------|
| PCB183 | ND | 0.0020 | 0.00053 | 1.00 | |
| PCB187 | ND | 0.0020 | 0.00056 | 1.00 | |
| PCB189 | ND | 0.0020 | 0.00040 | 1.00 | |
| PCB194 | ND | 0.0020 | 0.00042 | 1.00 | |
| PCB195 | ND | 0.0020 | 0.00035 | 1.00 | |
| PCB201 | ND | 0.0020 | 0.00072 | 1.00 | |
| PCB206 | ND | 0.0020 | 0.00026 | 1.00 | |
| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> | | |
| 2-Fluorobiphenyl | 76 | 50-150 | | | |
| p-Terphenyl-d14 | 71 | 50-150 | | | |

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 02/24/15
Work Order: 15-02-1742
Preparation: EPA 3510C
Method: EPA 8270C SIM PCB Congeners
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| SP-RW-19-G-S-20150224 | 15-02-1742-18-G | 02/24/15 12:15 | Sea Water | GC/MS HHH | 03/02/15 | 03/06/15 01:52 | 150302L21 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------|--------|--------|---------|------|------------|
| PCB018 | ND | 0.0019 | 0.00040 | 1.00 | |
| PCB028 | ND | 0.0019 | 0.00064 | 1.00 | |
| PCB037 | ND | 0.0019 | 0.00046 | 1.00 | |
| PCB044 | ND | 0.0019 | 0.00076 | 1.00 | |
| PCB049 | ND | 0.0019 | 0.00076 | 1.00 | |
| PCB052 | ND | 0.0019 | 0.00050 | 1.00 | |
| PCB066 | ND | 0.0019 | 0.00056 | 1.00 | |
| PCB070 | ND | 0.0019 | 0.00037 | 1.00 | |
| PCB074 | ND | 0.0019 | 0.00042 | 1.00 | |
| PCB077 | ND | 0.0019 | 0.00063 | 1.00 | |
| PCB081 | ND | 0.0019 | 0.00047 | 1.00 | |
| PCB087 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB099 | ND | 0.0019 | 0.00059 | 1.00 | |
| PCB101 | ND | 0.0019 | 0.00056 | 1.00 | |
| PCB105 | ND | 0.0019 | 0.00037 | 1.00 | |
| PCB110 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB114 | ND | 0.0019 | 0.00043 | 1.00 | |
| PCB118 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB119 | ND | 0.0019 | 0.00042 | 1.00 | |
| PCB123 | ND | 0.0019 | 0.00074 | 1.00 | |
| PCB126 | ND | 0.0019 | 0.00053 | 1.00 | |
| PCB128 | ND | 0.0019 | 0.00068 | 1.00 | |
| PCB132/153 | ND | 0.0039 | 0.0011 | 1.00 | |
| PCB138/158 | ND | 0.0039 | 0.0011 | 1.00 | |
| PCB149 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB151 | ND | 0.0019 | 0.00059 | 1.00 | |
| PCB156 | ND | 0.0019 | 0.00050 | 1.00 | |
| PCB157 | ND | 0.0019 | 0.00073 | 1.00 | |
| PCB167 | ND | 0.0019 | 0.00084 | 1.00 | |
| PCB168 | ND | 0.0019 | 0.00032 | 1.00 | |
| PCB169 | ND | 0.0019 | 0.00055 | 1.00 | |
| PCB170 | ND | 0.0019 | 0.00055 | 1.00 | |
| PCB177 | ND | 0.0019 | 0.00055 | 1.00 | |
| PCB180 | ND | 0.0019 | 0.00070 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 02/24/15
 Work Order: 15-02-1742
 Preparation: EPA 3510C
 Method: EPA 8270C SIM PCB Congeners
 Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|-----------------|-----------------------|-------------------|-----------|-------------------|
| PCB183 | ND | 0.0019 | 0.00052 | 1.00 | |
| PCB187 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB189 | ND | 0.0019 | 0.00039 | 1.00 | |
| PCB194 | ND | 0.0019 | 0.00041 | 1.00 | |
| PCB195 | ND | 0.0019 | 0.00034 | 1.00 | |
| PCB201 | ND | 0.0019 | 0.00070 | 1.00 | |
| PCB206 | ND | 0.0019 | 0.00025 | 1.00 | |
| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> | | |
| 2-Fluorobiphenyl | 79 | 50-150 | | | |
| p-Terphenyl-d14 | 73 | 50-150 | | | |

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 02/24/15
Work Order: 15-02-1742
Preparation: EPA 3510C
Method: EPA 8270C SIM PCB Congeners
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| EB20150224 | 15-02-1742-21-G | 02/24/15 12:45 | Sea Water | GC/MS HHH | 03/02/15 | 03/06/15 02:17 | 150302L21 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------|--------|--------|---------|------|------------|
| PCB018 | ND | 0.0020 | 0.00042 | 1.00 | |
| PCB028 | ND | 0.0020 | 0.00066 | 1.00 | |
| PCB037 | ND | 0.0020 | 0.00048 | 1.00 | |
| PCB044 | ND | 0.0020 | 0.00078 | 1.00 | |
| PCB049 | ND | 0.0020 | 0.00078 | 1.00 | |
| PCB052 | ND | 0.0020 | 0.00051 | 1.00 | |
| PCB066 | ND | 0.0020 | 0.00057 | 1.00 | |
| PCB070 | ND | 0.0020 | 0.00038 | 1.00 | |
| PCB074 | ND | 0.0020 | 0.00043 | 1.00 | |
| PCB077 | ND | 0.0020 | 0.00065 | 1.00 | |
| PCB081 | ND | 0.0020 | 0.00048 | 1.00 | |
| PCB087 | ND | 0.0020 | 0.00050 | 1.00 | |
| PCB099 | ND | 0.0020 | 0.00060 | 1.00 | |
| PCB101 | ND | 0.0020 | 0.00058 | 1.00 | |
| PCB105 | ND | 0.0020 | 0.00038 | 1.00 | |
| PCB110 | ND | 0.0020 | 0.00050 | 1.00 | |
| PCB114 | ND | 0.0020 | 0.00044 | 1.00 | |
| PCB118 | ND | 0.0020 | 0.00049 | 1.00 | |
| PCB119 | ND | 0.0020 | 0.00043 | 1.00 | |
| PCB123 | ND | 0.0020 | 0.00077 | 1.00 | |
| PCB126 | ND | 0.0020 | 0.00055 | 1.00 | |
| PCB128 | ND | 0.0020 | 0.00070 | 1.00 | |
| PCB132/153 | ND | 0.0040 | 0.0012 | 1.00 | |
| PCB138/158 | ND | 0.0040 | 0.0011 | 1.00 | |
| PCB149 | ND | 0.0020 | 0.00050 | 1.00 | |
| PCB151 | ND | 0.0020 | 0.00061 | 1.00 | |
| PCB156 | ND | 0.0020 | 0.00051 | 1.00 | |
| PCB157 | ND | 0.0020 | 0.00075 | 1.00 | |
| PCB167 | ND | 0.0020 | 0.00087 | 1.00 | |
| PCB168 | ND | 0.0020 | 0.00033 | 1.00 | |
| PCB169 | ND | 0.0020 | 0.00056 | 1.00 | |
| PCB170 | ND | 0.0020 | 0.00056 | 1.00 | |
| PCB177 | ND | 0.0020 | 0.00057 | 1.00 | |
| PCB180 | ND | 0.0020 | 0.00072 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 02/24/15
 Work Order: 15-02-1742
 Preparation: EPA 3510C
 Method: EPA 8270C SIM PCB Congeners
 Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|-----------------|-----------------------|-------------------|-----------|-------------------|
| PCB183 | ND | 0.0020 | 0.00053 | 1.00 | |
| PCB187 | ND | 0.0020 | 0.00056 | 1.00 | |
| PCB189 | ND | 0.0020 | 0.00040 | 1.00 | |
| PCB194 | ND | 0.0020 | 0.00042 | 1.00 | |
| PCB195 | ND | 0.0020 | 0.00035 | 1.00 | |
| PCB201 | ND | 0.0020 | 0.00072 | 1.00 | |
| PCB206 | ND | 0.0020 | 0.00026 | 1.00 | |
| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> | | |
| 2-Fluorobiphenyl | 82 | 50-150 | | | |
| p-Terphenyl-d14 | 81 | 50-150 | | | |

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 02/24/15
Work Order: 15-02-1742
Preparation: EPA 3510C
Method: EPA 8270C SIM PCB Congeners
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|---------|------------|---------------|--------------------|-------------|
| Method Blank | 099-16-414-26 | N/A | Aqueous | GC/MS HHH | 03/02/15 | 03/05/15 19:07 | 150302L21 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------|--------|--------|---------|------|------------|
| PCB018 | ND | 0.0020 | 0.00042 | 1.00 | |
| PCB028 | ND | 0.0020 | 0.00066 | 1.00 | |
| PCB037 | ND | 0.0020 | 0.00048 | 1.00 | |
| PCB044 | ND | 0.0020 | 0.00078 | 1.00 | |
| PCB049 | ND | 0.0020 | 0.00078 | 1.00 | |
| PCB052 | ND | 0.0020 | 0.00051 | 1.00 | |
| PCB066 | ND | 0.0020 | 0.00057 | 1.00 | |
| PCB070 | ND | 0.0020 | 0.00038 | 1.00 | |
| PCB074 | ND | 0.0020 | 0.00043 | 1.00 | |
| PCB077 | ND | 0.0020 | 0.00065 | 1.00 | |
| PCB081 | ND | 0.0020 | 0.00048 | 1.00 | |
| PCB087 | ND | 0.0020 | 0.00050 | 1.00 | |
| PCB099 | ND | 0.0020 | 0.00060 | 1.00 | |
| PCB101 | ND | 0.0020 | 0.00058 | 1.00 | |
| PCB105 | ND | 0.0020 | 0.00038 | 1.00 | |
| PCB110 | ND | 0.0020 | 0.00050 | 1.00 | |
| PCB114 | ND | 0.0020 | 0.00044 | 1.00 | |
| PCB118 | ND | 0.0020 | 0.00049 | 1.00 | |
| PCB119 | ND | 0.0020 | 0.00043 | 1.00 | |
| PCB123 | ND | 0.0020 | 0.00077 | 1.00 | |
| PCB126 | ND | 0.0020 | 0.00055 | 1.00 | |
| PCB128 | ND | 0.0020 | 0.00070 | 1.00 | |
| PCB132/153 | ND | 0.0040 | 0.0012 | 1.00 | |
| PCB138/158 | ND | 0.0040 | 0.0011 | 1.00 | |
| PCB149 | ND | 0.0020 | 0.00050 | 1.00 | |
| PCB151 | ND | 0.0020 | 0.00061 | 1.00 | |
| PCB156 | ND | 0.0020 | 0.00051 | 1.00 | |
| PCB157 | ND | 0.0020 | 0.00075 | 1.00 | |
| PCB167 | ND | 0.0020 | 0.00087 | 1.00 | |
| PCB168 | ND | 0.0020 | 0.00033 | 1.00 | |
| PCB169 | ND | 0.0020 | 0.00056 | 1.00 | |
| PCB170 | ND | 0.0020 | 0.00056 | 1.00 | |
| PCB177 | ND | 0.0020 | 0.00057 | 1.00 | |
| PCB180 | ND | 0.0020 | 0.00072 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 02/24/15
 Work Order: 15-02-1742
 Preparation: EPA 3510C
 Method: EPA 8270C SIM PCB Congeners
 Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|-----------------|-----------------------|-------------------|-----------|-------------------|
| PCB183 | ND | 0.0020 | 0.00053 | 1.00 | |
| PCB187 | ND | 0.0020 | 0.00056 | 1.00 | |
| PCB189 | ND | 0.0020 | 0.00040 | 1.00 | |
| PCB194 | ND | 0.0020 | 0.00042 | 1.00 | |
| PCB195 | ND | 0.0020 | 0.00035 | 1.00 | |
| PCB201 | ND | 0.0020 | 0.00072 | 1.00 | |
| PCB206 | ND | 0.0020 | 0.00026 | 1.00 | |
| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> | | |
| 2-Fluorobiphenyl | 70 | 50-150 | | | |
| p-Terphenyl-d14 | 71 | 50-150 | | | |

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Quality Control - Spike/Spike Duplicate

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 02/24/15
Work Order: 15-02-1742
Preparation: EPA 1631E Total
Method: EPA 1631E

Project: GWMA - TMDL Compliance Monitoring

Page 1 of 3

| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | MS/MSD Batch Number |
|---------------------------|------------------------|-----------|------------|---------------|----------------|---------------------|
| LE-RW-1022-G-S-20150224 | Sample | Sea Water | Hg/AF 1 | 03/02/15 | 03/02/15 00:00 | 150302S01A |
| LE-RW-1022-G-S-20150224 | Matrix Spike | Sea Water | Hg/AF 1 | 03/02/15 | 03/02/15 00:00 | 150302S01A |
| LE-RW-1022-G-S-20150224 | Matrix Spike Duplicate | Sea Water | Hg/AF 1 | 03/02/15 | 03/02/15 00:00 | 150302S01A |

| Parameter | Sample Conc. | Spike Added | MS Conc. | MS %Rec. | MSD Conc. | MSD %Rec. | %Rec. CL | RPD | RPD CL | Qualifiers |
|-----------|--------------|-------------|----------|----------|-----------|-----------|----------|-----|--------|------------|
| Mercury | 0.009912 | 0.02000 | 0.03663 | 134 | 0.03514 | 126 | 71-125 | 4 | 0-24 | 3 |

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RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - Spike/Spike Duplicate

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 02/24/15
 Work Order: 15-02-1742
 Preparation: Filtered
 Method: EPA 1631E

Project: GWMA - TMDL Compliance Monitoring

Page 2 of 3

| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | MS/MSD Batch Number |
|---------------------------|------------------------|-----------|------------|---------------|----------------|---------------------|
| LE-RW-22-G-S-20150224 | Sample | Sea Water | Hg/AF 1 | 03/02/15 | 03/02/15 00:00 | 150302S01 |
| LE-RW-22-G-S-20150224 | Matrix Spike | Sea Water | Hg/AF 1 | 03/02/15 | 03/02/15 00:00 | 150302S01 |
| LE-RW-22-G-S-20150224 | Matrix Spike Duplicate | Sea Water | Hg/AF 1 | 03/02/15 | 03/02/15 00:00 | 150302S01 |

| Parameter | Sample Conc. | Spike Added | MS Conc. | MS %Rec. | MSD Conc. | MSD %Rec. | %Rec. CL | RPD | RPD CL | Qualifiers |
|-----------|--------------|-------------|----------|----------|-----------|-----------|----------|-----|--------|------------|
| Mercury | 0.004300 | 0.02000 | 0.02353 | 96 | 0.01992 | 78 | 71-125 | 17 | 0-24 | |

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RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - Spike/Spike Duplicate

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 02/24/15
 Work Order: 15-02-1742
 Preparation: EPA 3005A Total
 Method: EPA 1640

Project: GWMA - TMDL Compliance Monitoring

Page 3 of 3

| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | MS/MSD Batch Number |
|---------------------------|------------------------|-----------|------------|---------------|----------------|---------------------|
| LE-RW-22-G-S-20150224 | Sample | Sea Water | ICP/MS 05 | 02/26/15 | 02/27/15 04:54 | 150226S03 |
| LE-RW-22-G-S-20150224 | Matrix Spike | Sea Water | ICP/MS 05 | 02/26/15 | 02/27/15 06:45 | 150226S03 |
| LE-RW-22-G-S-20150224 | Matrix Spike Duplicate | Sea Water | ICP/MS 05 | 02/26/15 | 02/27/15 06:53 | 150226S03 |

| Parameter | Sample Conc. | Spike Added | MS Conc. | MS %Rec. | MSD Conc. | MSD %Rec. | %Rec. CL | RPD | RPD CL | Qualifiers |
|-----------|--------------|-------------|----------|----------|-----------|-----------|----------|-----|--------|------------|
| Cadmium | 0.06351 | 0.5000 | 0.5919 | 106 | 0.5846 | 104 | 50-150 | 1 | 0-20 | |
| Chromium | ND | 5.000 | 5.757 | 115 | 6.090 | 122 | 50-150 | 6 | 0-20 | |
| Copper | 2.585 | 0.5000 | 2.726 | 4X | 2.669 | 4X | 50-150 | 4X | 0-20 | Q |
| Lead | 1.463 | 0.5000 | 1.933 | 94 | 1.870 | 81 | 50-150 | 3 | 0-20 | |
| Zinc | 9.074 | 5.000 | 13.74 | 93 | 13.67 | 92 | 50-150 | 1 | 0-20 | |

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RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - Sample Duplicate

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 02/24/15
 Work Order: 15-02-1742
 Preparation: N/A
 Method: SM 2540 D

Project: GWMA - TMDL Compliance Monitoring

Page 1 of 2

| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | Duplicate Batch Number |
|---------------------------|------------------|---------|------------|----------------|----------------|------------------------|
| 15-02-1909-4 | Sample | Aqueous | N/A | 02/27/15 00:00 | 02/27/15 18:00 | F0227TSSD1 |
| 15-02-1909-4 | Sample Duplicate | Aqueous | N/A | 02/27/15 00:00 | 02/27/15 18:00 | F0227TSSD1 |

| Parameter | Sample Conc. | DUP Conc. | RPD | RPD CL | Qualifiers |
|-------------------------|--------------|-----------|-----|--------|------------|
| Solids, Total Suspended | 5320 | 5160 | 3 | 0-20 | |

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RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - Sample Duplicate

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 02/24/15
Work Order: 15-02-1742
Preparation: N/A
Method: SM 2540 D

Project: GWMA - TMDL Compliance Monitoring

Page 2 of 2

| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | Duplicate Batch Number |
|---------------------------|------------------|-----------|------------|----------------|----------------|------------------------|
| LE-RW-22-G-S-20150224 | Sample | Sea Water | N/A | 03/02/15 00:00 | 03/02/15 15:00 | F0302TSSD3 |
| LE-RW-22-G-S-20150224 | Sample Duplicate | Sea Water | N/A | 03/02/15 00:00 | 03/02/15 15:00 | F0302TSSD3 |

| Parameter | Sample Conc. | DUP Conc. | RPD | RPD CL | Qualifiers |
|-------------------------|--------------|-----------|-----|--------|------------|
| Solids, Total Suspended | 9.600 | 10.20 | 6 | 0-20 | |

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RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - LCS/LCSD

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 02/24/15
Work Order: 15-02-1742
Preparation: N/A
Method: SM 2540 D

Project: GWMA - TMDL Compliance Monitoring

Page 1 of 8

| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | LCS/LCSD Batch Number | | | |
|---------------------------|-------------|-----------|------------|---------------|----------------|-----------------------|-----|--------|------------|
| 099-09-010-7076 | LCS | Aqueous | N/A | 02/27/15 | 02/27/15 18:00 | F0227TSSL1 | | | |
| 099-09-010-7076 | LCSD | Aqueous | N/A | 02/27/15 | 02/27/15 18:00 | F0227TSSL1 | | | |
| Parameter | Spike Added | LCS Conc. | LCS %Rec. | LCSD Conc. | LCSD %Rec. | %Rec. CL | RPD | RPD CL | Qualifiers |
| Solids, Total Suspended | 100.0 | 87.00 | 87 | 87.00 | 87 | 80-120 | 0 | 0-20 | |

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RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - LCS/LCSD

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 02/24/15
Work Order: 15-02-1742
Preparation: N/A
Method: SM 2540 D

Project: GWMA - TMDL Compliance Monitoring

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| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | LCS/LCSD Batch Number | | | |
|---------------------------|-------------|-----------|------------|---------------|----------------|-----------------------|-----|--------|------------|
| 099-09-010-7075 | LCS | Aqueous | N/A | 03/02/15 | 03/02/15 15:00 | F0302TSSL3 | | | |
| 099-09-010-7075 | LCSD | Aqueous | N/A | 03/02/15 | 03/02/15 15:00 | F0302TSSL3 | | | |
| Parameter | Spike Added | LCS Conc. | LCS %Rec. | LCSD Conc. | LCSD %Rec. | %Rec. CL | RPD | RPD CL | Qualifiers |
| Solids, Total Suspended | 100.0 | 86.00 | 86 | 84.00 | 84 | 80-120 | 2 | 0-20 | |

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RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - LCS/LCSD

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 02/24/15
 Work Order: 15-02-1742
 Preparation: EPA 1631E Total
 Method: EPA 1631E

Project: GWMA - TMDL Compliance Monitoring

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| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | LCS/LCSD Batch Number |
|---------------------------|------|---------|------------|---------------|----------------|-----------------------|
| 099-15-224-76 | LCS | Aqueous | Hg/AF 1 | 03/02/15 | 03/02/15 00:00 | 150302L01 |
| 099-15-224-76 | LCSD | Aqueous | Hg/AF 1 | 03/02/15 | 03/02/15 00:00 | 150302L01 |

| Parameter | Spike Added | LCS Conc. | LCS %Rec. | LCSD Conc. | LCSD %Rec. | %Rec. CL | RPD | RPD CL | Qualifiers |
|-----------|-------------|-----------|-----------|------------|------------|----------|-----|--------|------------|
| Mercury | 0.02000 | 0.02253 | 113 | 0.01969 | 98 | 71-125 | 13 | 0-20 | |

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RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - LCS/LCSD

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 02/24/15
 Work Order: 15-02-1742
 Preparation: Filtered
 Method: EPA 1631E

Project: GWMA - TMDL Compliance Monitoring

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| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | LCS/LCSD Batch Number |
|---------------------------|------|---------|------------|---------------|----------------|-----------------------|
| 099-15-226-58 | LCS | Aqueous | Hg/AF 1 | 03/02/15 | 03/02/15 00:00 | 150302L01F |
| 099-15-226-58 | LCSD | Aqueous | Hg/AF 1 | 03/02/15 | 03/02/15 00:00 | 150302L01F |

| Parameter | Spike Added | LCS Conc. | LCS %Rec. | LCSD Conc. | LCSD %Rec. | %Rec. CL | RPD | RPD CL | Qualifiers |
|-----------|-------------|-----------|-----------|------------|------------|----------|-----|--------|------------|
| Mercury | 0.02000 | 0.02253 | 113 | 0.01969 | 98 | 71-125 | 13 | 0-20 | |

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RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - LCS/LCSD

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 02/24/15
Work Order: 15-02-1742
Preparation: EPA 3005A Total
Method: EPA 1640

Project: GWMA - TMDL Compliance Monitoring

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| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | LCS/LCSD Batch Number | | | |
|---------------------------|-------------|-----------|------------|---------------|----------------|-----------------------|-----|--------|------------|
| 099-13-067-493 | LCS | Aqueous | ICP/MS 05 | 02/26/15 | 02/26/15 20:33 | 150226L03 | | | |
| 099-13-067-493 | LCSD | Aqueous | ICP/MS 05 | 02/26/15 | 02/26/15 20:41 | 150226L03 | | | |
| Parameter | Spike Added | LCS Conc. | LCS %Rec. | LCSD Conc. | LCSD %Rec. | %Rec. CL | RPD | RPD CL | Qualifiers |
| Cadmium | 0.5000 | 0.5285 | 106 | 0.5382 | 108 | 70-130 | 2 | 0-20 | |
| Chromium | 5.000 | 5.699 | 114 | 5.649 | 113 | 70-130 | 1 | 0-20 | |
| Copper | 0.5000 | 0.5423 | 108 | 0.5620 | 112 | 70-130 | 4 | 0-20 | |
| Lead | 0.5000 | 0.5560 | 111 | 0.5007 | 100 | 70-130 | 10 | 0-20 | |
| Zinc | 5.000 | 5.480 | 110 | 5.581 | 112 | 70-130 | 2 | 0-20 | |


 Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - LCS/LCSD

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 02/24/15
Work Order: 15-02-1742
Preparation: EPA 3005A Filt.
Method: EPA 1640

Project: GWMA - TMDL Compliance Monitoring

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| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | LCS/LCSD Batch Number | | | |
|---------------------------|-------------|-----------|------------|---------------|----------------|-----------------------|-----|--------|------------|
| 099-15-823-131 | LCS | Aqueous | ICP/MS 05 | 02/26/15 | 02/26/15 20:33 | 150226L03F | | | |
| 099-15-823-131 | LCSD | Aqueous | ICP/MS 05 | 02/26/15 | 02/26/15 20:41 | 150226L03F | | | |
| Parameter | Spike Added | LCS Conc. | LCS %Rec. | LCSD Conc. | LCSD %Rec. | %Rec. CL | RPD | RPD CL | Qualifiers |
| Cadmium | 0.5000 | 0.5285 | 106 | 0.5382 | 108 | 70-130 | 2 | 0-20 | |
| Chromium | 5.000 | 5.699 | 114 | 5.649 | 113 | 70-130 | 1 | 0-20 | |
| Copper | 0.5000 | 0.5423 | 108 | 0.5620 | 112 | 70-130 | 4 | 0-20 | |
| Lead | 0.5000 | 0.5560 | 111 | 0.5007 | 100 | 70-130 | 10 | 0-20 | |
| Zinc | 5.000 | 5.480 | 110 | 5.581 | 112 | 70-130 | 2 | 0-20 | |


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RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - LCS/LCSD

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 02/24/15
Work Order: 15-02-1742
Preparation: EPA 3510C
Method: EPA 8081A

Project: GWMA - TMDL Compliance Monitoring

Page 7 of 8

| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | LCS/LCSD Batch Number | | | |
|---------------------------|-------------|-----------|------------|---------------|----------------|-----------------------|-----|--------|------------|
| 099-16-036-16 | LCS | Aqueous | GC 44 | 03/02/15 | 03/06/15 17:05 | 150302L18 | | | |
| 099-16-036-16 | LCSD | Aqueous | GC 44 | 03/02/15 | 03/06/15 17:20 | 150302L18 | | | |
| Parameter | Spike Added | LCS Conc. | LCS %Rec. | LCSD Conc. | LCSD %Rec. | %Rec. CL | RPD | RPD CL | Qualifiers |
| 4,4'-DDD | 50.00 | 55.30 | 111 | 59.98 | 120 | 50-150 | 8 | 0-25 | |
| 4,4'-DDE | 50.00 | 47.50 | 95 | 52.45 | 105 | 50-150 | 10 | 0-25 | |
| 4,4'-DDT | 50.00 | 46.33 | 93 | 50.64 | 101 | 50-150 | 9 | 0-25 | |
| Alpha Chlordane | 50.00 | 45.98 | 92 | 51.22 | 102 | 50-150 | 11 | 0-25 | |
| Dieldrin | 50.00 | 48.39 | 97 | 53.52 | 107 | 50-150 | 10 | 0-25 | |
| Gamma Chlordane | 50.00 | 45.38 | 91 | 50.64 | 101 | 50-150 | 11 | 0-25 | |

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - LCS/LCSD

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 02/24/15
Work Order: 15-02-1742
Preparation: EPA 3510C
Method: EPA 8270C SIM PCB Congeners

Project: GWMA - TMDL Compliance Monitoring

Page 8 of 8

| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | LCS/LCSD Batch Number | | | | |
|---------------------------|-------------|-----------|------------|---------------|----------------|-----------------------|--------|-----|--------|------------|
| 099-16-414-26 | LCS | Aqueous | GC/MS HHH | 03/02/15 | 03/05/15 18:15 | 150302L21 | | | | |
| 099-16-414-26 | LCSD | Aqueous | GC/MS HHH | 03/02/15 | 03/05/15 18:41 | 150302L21 | | | | |
| Parameter | Spike Added | LCS Conc. | LCS %Rec. | LCSD Conc. | LCSD %Rec. | %Rec. CL | ME CL | RPD | RPD CL | Qualifiers |
| PCB018 | 0.5000 | 0.2985 | 60 | 0.3274 | 65 | 50-150 | 33-167 | 9 | 0-25 | |
| PCB028 | 0.5000 | 0.3220 | 64 | 0.3512 | 70 | 50-150 | 33-167 | 9 | 0-25 | |
| PCB044 | 0.5000 | 0.3029 | 61 | 0.3283 | 66 | 50-150 | 33-167 | 8 | 0-25 | |
| PCB052 | 0.5000 | 0.2725 | 54 | 0.2970 | 59 | 50-150 | 33-167 | 9 | 0-25 | |
| PCB066 | 0.5000 | 0.3485 | 70 | 0.3761 | 75 | 50-150 | 33-167 | 8 | 0-25 | |
| PCB077 | 0.5000 | 0.3297 | 66 | 0.3498 | 70 | 50-150 | 33-167 | 6 | 0-25 | |
| PCB101 | 0.5000 | 0.3005 | 60 | 0.3238 | 65 | 50-150 | 33-167 | 7 | 0-25 | |
| PCB105 | 0.5000 | 0.3247 | 65 | 0.3439 | 69 | 50-150 | 33-167 | 6 | 0-25 | |
| PCB118 | 0.5000 | 0.3302 | 66 | 0.3517 | 70 | 50-150 | 33-167 | 6 | 0-25 | |
| PCB126 | 0.5000 | 0.3164 | 63 | 0.3337 | 67 | 50-150 | 33-167 | 5 | 0-25 | |
| PCB128 | 0.5000 | 0.2752 | 55 | 0.2876 | 58 | 50-150 | 33-167 | 4 | 0-25 | |
| PCB170 | 0.5000 | 0.2769 | 55 | 0.3084 | 62 | 50-150 | 33-167 | 11 | 0-25 | |
| PCB180 | 0.5000 | 0.2739 | 55 | 0.2887 | 58 | 50-150 | 33-167 | 5 | 0-25 | |
| PCB187 | 0.5000 | 0.2898 | 58 | 0.3054 | 61 | 50-150 | 33-167 | 5 | 0-25 | |
| PCB195 | 0.5000 | 0.3182 | 64 | 0.3535 | 71 | 50-150 | 33-167 | 11 | 0-25 | |
| PCB206 | 0.5000 | 0.2874 | 57 | 0.3214 | 64 | 50-150 | 33-167 | 11 | 0-25 | |

Total number of LCS compounds: 16

Total number of ME compounds: 0

Total number of ME compounds allowed: 1

LCS ME CL validation result: Pass

RPD: Relative Percent Difference. CL: Control Limits

Glossary of Terms and Qualifiers

Work Order: 15-02-1742

Page 1 of 1

| <u>Qualifiers</u> | <u>Definition</u> |
|-------------------|--|
| * | See applicable analysis comment. |
| < | Less than the indicated value. |
| > | Greater than the indicated value. |
| 1 | Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification. |
| 2 | Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification. |
| 3 | Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control. |
| 4 | The MS/MSD RPD was out of control due to suspected matrix interference. |
| 5 | The PDS/PDSO or PES/PESO associated with this batch of samples was out of control due to suspected matrix interference. |
| 6 | Surrogate recovery below the acceptance limit. |
| 7 | Surrogate recovery above the acceptance limit. |
| B | Analyte was present in the associated method blank. |
| BU | Sample analyzed after holding time expired. |
| BV | Sample received after holding time expired. |
| E | Concentration exceeds the calibration range. |
| ET | Sample was extracted past end of recommended max. holding time. |
| HD | The chromatographic pattern was inconsistent with the profile of the reference fuel standard. |
| HDH | The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected). |
| HDL | The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected). |
| J | Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated. |
| JA | Analyte positively identified but quantitation is an estimate. |
| ME | LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean). |
| ND | Parameter not detected at the indicated reporting limit. |
| Q | Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater. |
| SG | The sample extract was subjected to Silica Gel treatment prior to analysis. |
| X | % Recovery and/or RPD out-of-range. |
| Z | Analyte presence was not confirmed by second column or GC/MS analysis. |


Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of ≤ 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

Chain of Custody Record & Laboratory Analysis Request

Laboratory Number: _____
 Date: 2/24/15
 Project Name: **GWMA-TMDL Compliance Monitoring**
 Project Number: **141205-01.01**
 Project Manager: **Andy Martin**
 Phone Number: **(949) 334-9630**
 Shipment Method: **Courier**

| Test Parameters | | | | | | |
|-------------------|-----|----------------------------|-----------------------------|---------------------------|---------------|--|
| No. of Containers | TSS | Total and dissolved metals | Total and dissolved mercury | Organochlorine pesticides | PCB Congeners | |


ANCHOR
QEA
15-02-1742

| Line | Field Sample ID | Collection Date/Time | Matrix | No. of Containers | TSS | Total and dissolved metals | Total and dissolved mercury | Organochlorine pesticides | PCB Congeners | Comments/Preservation |
|------|-------------------------|----------------------|--------|-------------------|-----|----------------------------|-----------------------------|---------------------------|---------------|-----------------------|
| 1 | LE-RW-22-G-S-20150224 | 02/23/15/8:45 | water | 8 | 1 | 2 | 2 | 2 | 1 | |
| 2 | LE-RW-22-G-M-20150224 | 02/23/15/8:45 | | 1 | 1 | | | | | |
| 3 | LE-RW-22-G-B-20150224 | 02/23/15/8:45 | | 1 | 1 | | | | | |
| 4 | LE-RW-1022-G-S-20150224 | 02/24/15/9:00 | | 7 | 2 | 2 | 2 | 1 | | field duplicate |
| 5 | LE-RW-21-G-S-20150224 | 02/24/15/9:15 | | 8 | 1 | 2 | 2 | 2 | 1 | |
| 6 | LE-RW-21-G-M-20150224 | 02/24/15/9:15 | | 1 | 1 | | | | | |
| 7 | LE-RW-21-G-B-20150224 | 02/24/15/9:15 | | 1 | 1 | | | | | |
| 8 | LE-RW-21-G-S-20150224 | 02/24/15/9:30 | | 8 | 1 | 2 | 2 | 2 | 1 | Lab duplicate |
| 9 | SP-RW-18-G-S-20150224 | 02/24/15/10:00 | | 8 | 1 | 2 | 2 | 2 | 1 | |
| 10 | SP-RW-18-G-M-20150224 | 02/24/15/10:00 | | 1 | 1 | | | | | |
| 11 | SP-RW-18-G-B-20150224 | 02/24/15/10:00 | | 1 | 1 | | | | | |
| 12 | OB-RW-17-G-S-20150224 | 02/24/15/10:30 | | 8 | 1 | 2 | 2 | 2 | 1 | |
| 13 | OB-RW-17-G-M-20150224 | 02/24/15/10:30 | | 1 | 1 | | | | | |
| 14 | OB-RW-17-G-B-20150224 | 02/24/15/10:30 | | 1 | 1 | | | | | |
| 15 | SP-RW-10-G-S-20150224 | 02/24/15/14:30 | ✓ | 8 | 1 | 2 | 2 | 2 | 1 | |

Notes:

Relinquished By: Nicholas DeSilva Company: Coastal Resources Management
 Signature/Printed Name: _____ Date/Time: 02/24/15 1335

Received By: RUDY MIGA Company: ECI
 Signature/Printed Name: _____ Date/Time: 2/24/15 1335

Relinquished By: RUDY MIGA Company: ECI
 Signature/Printed Name: _____ Date/Time: 2/24/15 1408

Received By: [Signature] Company: ECI
 Signature/Printed Name: _____ Date/Time: 2/24/15 1408

Chain of Custody Record & Laboratory Analysis Request

| | |
|--|-----------------|
| Laboratory Number: _____ Date: <u>2/24/15</u> Project Name: GWMA-TMDL Compliance Monitoring Project Number: 141205-01.01 Project Manager: Andy Martin Phone Number: (949) 334-9630 Shipment Method: Courier | Test Parameters |
|--|-----------------|



1742

| Line | Field Sample ID | Collection Date/Time | Matrix | No. of Containers | Test Parameters | | | | | | | | | | Comments/Preservation | | |
|------|-------------------------|----------------------|--------|-------------------|-----------------|----------------------------|-----------------------------|---------------------------|---------------|--|--|--|--|--|-----------------------|--|-------------------|
| | | | | | TSS | Total and dissolved metals | Total and dissolved mercury | Organochlorine pesticides | PCB Congeners | | | | | | | | |
| 16 | SP-RW-20-B-M-20150224 | 2/24/15/11:30 | Water | 1 | 1 | | | | | | | | | | | | |
| 17 | SP-RW-1020-G-M-20150224 | 2/24/15/11:30 | | 1 | 1 | | | | | | | | | | | | mid TSS field dup |
| 18 | SP-RW-19-B-S-20150224 | 2/24/15/12:15 | | 8 | 1 | 2 | 2 | 2 | 1 | | | | | | | | |
| 19 | SP-RW-19-G-M-20150224 | 2/24/15/12:15 | | 1 | 1 | | | | | | | | | | | | |
| 20 | SP-RW-19-G-B-20150224 | 2/24/15/12:15 | | 1 | 1 | 2 | 2 | 2 | 2 | | | | | | | | |
| 21 | ER20150224 | 2/24/15/12:15 | ↓ | 7 | 2 | 2 | 2 | 1 | | | | | | | | | rinsate blank |
| 7 | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | | |

Notes:

| | |
|--|---|
| Relinquished By: _____ | Company: <u>Costal Resources Management</u> |
| <i>Stephen J. Nicholas</i> Signature/Printed Name | <u>2/24/15 1335</u> Date/Time |

| | |
|--|----------------------------------|
| Received By: _____ | Company: <u>ECI</u> |
| <i>RVDY MIGA</i> Signature/Printed Name | <u>2/24/15 1335</u> Date/Time |

| | |
|--|----------------------------------|
| Relinquished By: _____ | Company: <u>ECI</u> |
| <i>RVDY MIGA</i> Signature/Printed Name | <u>2/24/15 1408</u> Date/Time |

| | |
|--|----------------------------------|
| Received By: _____ | Company: <u>ECI</u> |
| <i>RVDY MIGA</i> Signature/Printed Name | <u>2/24/15 1408</u> Date/Time |

Calscience

WORK ORDER #: 15-02-1742

SAMPLE RECEIPT FORM

Cooler 1 of 4

CLIENT: ANCHOR

DATE: 02/24/15

TEMPERATURE: Thermometer ID: SC4 (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Temperature 2.0 °C + 0.2°C (CF) = 2.2 °C Blank Sample

Sample(s) outside temperature criteria (PM/APM contacted by: _____)

Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: Air Filter

Checked by: 676

CUSTODY SEALS INTACT:

Cooler _____ No (Not Intact) Not Present N/A Checked by: 676

Sample _____ No (Not Intact) Not Present Checked by: 991

| SAMPLE CONDITION: | Yes | No | N/A |
|---|-------------------------------------|-------------------------------------|-------------------------------------|
| Chain-Of-Custody (COC) document(s) received with samples..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| COC document(s) received complete..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> Collection date/time, matrix, and/or # of containers logged in based on sample labels. | | | |
| <input type="checkbox"/> No analysis requested. <input type="checkbox"/> Not relinquished. <input type="checkbox"/> No date/time relinquished. | | | |
| Sampler's name indicated on COC..... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Sample container label(s) consistent with COC..... | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Sample container(s) intact and good condition..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Proper containers and sufficient volume for analyses requested..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Analyses received within holding time..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Aqueous samples received within 15-minute holding time | | | |
| <input type="checkbox"/> pH <input type="checkbox"/> Residual Chlorine <input type="checkbox"/> Dissolved Sulfides <input type="checkbox"/> Dissolved Oxygen..... | | | |
| Proper preservation noted on COC or sample container..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> Unpreserved vials received for Volatiles analysis | | | |
| Volatile analysis container(s) free of headspace..... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Tedlar bag(s) free of condensation..... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

CONTAINER TYPE:

Solid: 4ozCGJ 8ozCGJ 16ozCGJ Sleeve (____) EnCores® TerraCores® _____

Aqueous: VOA VOA^h VOA_{na2} 125AGB 125AGB^h 125AGB^p 1AGB³ 1AGB_{na2} 1AGBs

500AGB 500AGJ 500AGJs 250AGB 250CGB² 250CGBs 1PB 1PB_{na} 500PB

250PB² 250PB_n 125PB 125PBz_{nna} 100PJ 100PJ_{na2} _____ _____ _____

Air: Tedlar® Canister **Other:** _____ **Trip Blank Lot#:** _____ **Labeled/Checked by:** 991

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope **Reviewed by:** 679

Preservative: h: HCL n: HNO₃ na₂: Na₂S₂O₃ na: NaOH p: H₃PO₄ s: H₂SO₄ u: Ultra-pure z_{nna}: ZnAc₂+NaOH f: Filtered **Scanned by:** 679

Return to Contents

Calscience

WORK ORDER #: 15-02-1742

SAMPLE RECEIPT FORM

Cooler 2 of 4

CLIENT: ANCMOR

DATE: 02/24/15

TEMPERATURE: Thermometer ID: SC4 (Criteria: 0.0 °C – 6.0 °C, not frozen except sediment/tissue)

Temperature 2.1 °C + 0.2 °C (CF) = 2.3 °C Blank Sample

Sample(s) outside temperature criteria (PM/APM contacted by: _____)

Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: Air Filter Checked by: 676

CUSTODY SEALS INTACT:

Cooler _____ No (Not Intact) Not Present N/A Checked by: 676

Sample _____ No (Not Intact) Not Present Checked by: 991

| SAMPLE CONDITION: | Yes | No | N/A |
|---|-------------------------------------|-------------------------------------|-------------------------------------|
| Chain-Of-Custody (COC) document(s) received with samples..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| COC document(s) received complete..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> Collection date/time, matrix, and/or # of containers logged in based on sample labels. <input type="checkbox"/> No analysis requested. <input type="checkbox"/> Not relinquished. <input type="checkbox"/> No date/time relinquished. | | | |
| Sampler's name indicated on COC..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Sample container label(s) consistent with COC..... | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Sample container(s) intact and good condition..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Proper containers and sufficient volume for analyses requested..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Analyses received within holding time..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Aqueous samples received within 15-minute holding time | | | |
| <input type="checkbox"/> pH <input type="checkbox"/> Residual Chlorine <input type="checkbox"/> Dissolved Sulfides <input type="checkbox"/> Dissolved Oxygen..... | | | |
| Proper preservation noted on COC or sample container..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> Unpreserved vials received for Volatiles analysis | | | |
| Volatile analysis container(s) free of headspace..... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Tedlar bag(s) free of condensation..... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

CONTAINER TYPE:

Solid: 4ozCGJ 8ozCGJ 16ozCGJ Sleeve (____) EnCores® TerraCores® _____

Aqueous: VOA VOAh VOAna₂ 125AGB 125AGBh 125AGBp 1AGB³ 1AGBna₂ 1AGBs

500AGB 500AGJ 500AGJs 250AGB 250CGB² 250CGBs 1PB 1PBna 500PB

250PB² 250PBn 125PB 125PBz₂na 100PJ 100PJna₂ _____ _____ _____

Air: Tedlar® Canister **Other:** _____ **Trip Blank Lot#:** _____ **Labeled/Checked by:** 991

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope **Reviewed by:** 676

Preservative: h: HCL n: HNO₃ na₂: Na₂S₂O₃ na: NaOH p: H₃PO₄ s: H₂SO₄ u: Ultra-pure z₂na: ZnAc₂+NaOH f: Filtered **Scanned by:** 676

Return to Contents

Calscience

WORK ORDER #: 15-02- 1 7 4 2

SAMPLE RECEIPT FORM

Cooler 3 of 4

CLIENT: ANCHOR

DATE: 02/24/15

TEMPERATURE: Thermometer ID: SC4 (Criteria: 0.0 °C – 6.0 °C, not frozen except sediment/tissue)

Temperature 2.0 °C + 0.2 °C (CF) = 2.2 °C Blank Sample

Sample(s) outside temperature criteria (PM/APM contacted by: _____)

Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: Air Filter Checked by: 676

CUSTODY SEALS INTACT:

Cooler _____ No (Not Intact) Not Present N/A Checked by: 676

Sample _____ No (Not Intact) Not Present Checked by: 991

| SAMPLE CONDITION: | Yes | No | N/A |
|---|--|-------------------------------------|-------------------------------------|
| Chain-Of-Custody (COC) document(s) received with samples..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| COC document(s) received complete..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> Collection date/time, matrix, and/or # of containers logged in based on sample labels. | | | |
| <input type="checkbox"/> No analysis requested. <input type="checkbox"/> Not relinquished. <input type="checkbox"/> No date/time relinquished. | | | |
| Sampler's name indicated on COC..... | <input checked="" type="checkbox"/> <u>676</u> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Sample container label(s) consistent with COC..... | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Sample container(s) intact and good condition..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Proper containers and sufficient volume for analyses requested..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Analyses received within holding time..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Aqueous samples received within 15-minute holding time | | | |
| <input type="checkbox"/> pH <input type="checkbox"/> Residual Chlorine <input type="checkbox"/> Dissolved Sulfides <input type="checkbox"/> Dissolved Oxygen..... | | | |
| Proper preservation noted on COC or sample container..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> Unpreserved vials received for Volatiles analysis | | | |
| Volatile analysis container(s) free of headspace..... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Tedlar bag(s) free of condensation..... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

CONTAINER TYPE:

Solid: 4ozCGJ 8ozCGJ 16ozCGJ Sleeve (____) EnCores® TerraCores® _____

Aqueous: VOA VOA_h VOA_{na2} 125AGB 125AGB_h 125AGB_p 1AGB 1AGB_{na2} 1AGB_s

500AGB 500AGJ 500AGJ_s 250AGB 250CGB 250CGB_s 1PB 1PB_{na} 500PB

250PB 250PB_n 125PB 125PB_zna 100PJ 100PJ_{na2} _____ _____ _____

Air: Tedlar® Canister **Other:** _____ **Trip Blank Lot#:** _____ **Labeled/Checked by:** 991

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope **Reviewed by:** 676

Preservative: h: HCL n: HNO₃ na₂: Na₂S₂O₃ na: NaOH p: H₃PO₄ s: H₂SO₄ u: Ultra-pure zna: ZnAc₂+NaOH f: Filtered **Scanned by:** 676

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Calscience

WORK ORDER #: 15-02-1742

SAMPLE RECEIPT FORM

Cooler 4 of 4

CLIENT: ANCHOR

DATE: 02/24/15

TEMPERATURE: Thermometer ID: SC4 (Criteria: 0.0 °C – 6.0 °C, not frozen except sediment/tissue)

Temperature 2.2 °C + 0.2 °C (CF) = 2.4 °C Blank Sample

Sample(s) outside temperature criteria (PM/APM contacted by: _____)

Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: Air Filter

Checked by: 676

CUSTODY SEALS INTACT:

Cooler _____ No (Not Intact) Not Present N/A Checked by: 676

Sample _____ No (Not Intact) Not Present Checked by: 991

| SAMPLE CONDITION: | Yes | No | N/A |
|---|-------------------------------------|--------------------------|-------------------------------------|
| Chain-Of-Custody (COC) document(s) received with samples..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| COC document(s) received complete..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> Collection date/time, matrix, and/or # of containers logged in based on sample labels. | | | |
| <input type="checkbox"/> No analysis requested. <input type="checkbox"/> Not relinquished. <input type="checkbox"/> No date/time relinquished. | | | |
| Sampler's name indicated on COC..... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Sample container label(s) consistent with COC..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Sample container(s) intact and good condition..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Proper containers and sufficient volume for analyses requested..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Analyses received within holding time..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Aqueous samples received within 15-minute holding time | | | |
| <input type="checkbox"/> pH <input type="checkbox"/> Residual Chlorine <input type="checkbox"/> Dissolved Sulfides <input type="checkbox"/> Dissolved Oxygen..... | | | |
| Proper preservation noted on COC or sample container..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> Unpreserved vials received for Volatiles analysis | | | |
| Volatile analysis container(s) free of headspace..... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Tedlar bag(s) free of condensation..... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

CONTAINER TYPE:

Solid: 4ozCGJ 8ozCGJ 16ozCGJ Sleeve (____) EnCores® TerraCores® _____

Aqueous: VOA VOA^h VOA^{na}₂ 125AGB 125AGB^h 125AGB^p 1AGB 1AGB^{na}₂ 1AGBs

500AGB 500AGJ 500AGJs 250AGB 250CGB 250CGBs 1PB 1PB^{na} 500PB

250PB 250PBⁿ 125PB 125PBz^{na} 100PJ 100PJ^{na}₂ _____ _____ _____

Air: Tedlar® Canister **Other:** _____ **Trip Blank Lot#:** _____ **Labeled/Checked by:** 991

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope **Reviewed by:** 679

Preservative: h: HCL n: HNO₃ na₂: Na₂S₂O₃ na: NaOH p: H₃PO₄ s: H₂SO₄ u: Ultra-pure z^{na}: ZnAc₂+NaOH f: Filtered **Scanned by:** 679

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Calscience

WORK ORDER #: 15-02-1742

SAMPLE ANOMALY FORM

SAMPLES - CONTAINERS & LABELS:

Comments:

- Sample(s) NOT RECEIVED but listed on COC
- Sample(s) received but NOT LISTED on COC
- Holding time expired – list sample ID(s) and test
- Insufficient quantities for analysis – list test
- Improper container(s) used – list test
- Improper preservative used – list test
- No preservative noted on COC or label – list test & notify lab
- Sample labels illegible – note test/container type
- Sample label(s) do not match COC – Note in comments
 - Sample ID
 - Date and/or Time Collected
 - Project Information
 - # of Container(s)
 - Analysis
- Sample container(s) compromised – Note in comments
 - Water present in sample container
 - Broken
- Sample container(s) not labeled
- Air sample container(s) compromised – Note in comments
 - Flat
 - Very low in volume
 - Leaking (Not transferred - duplicate bag submitted)
 - Leaking (transferred into Calscience Tedlar® Bag*)
 - Leaking (transferred into Client's Tedlar® Bag*)
- Other: _____

Collection time per label:

(-1) to (-3) 8:20

(-4) 8:50

(-8) 9:40

(-12) to (-14) 10:45

(-15) to (-17) 11:40

(-23) Received 1 - 1 liter poly for TSS labeled as SP-RW-20-G-B-20150224 2/24/15 @ 11:40 not on COC.

HEADSPACE – Containers with Bubble > 6mm or 1/4 inch:

| Sample # | Container ID(s) | # of Vials Received | Sample # | Container ID(s) | # of Vials Received | Sample # | Container ID(s) | # of Cont. received | Analysis |
|----------|-----------------|---------------------|----------|-----------------|---------------------|----------|-----------------|---------------------|----------|
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

Comments: _____

*Transferred at Client's request.

Initial / Date: 65902/24/15

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Danielle Gonsman

From: Claire Dolphin [cdolphin@anchorqea.com]
Sent: Wednesday, February 25, 2015 4:32 PM
To: Danielle Gonsman
Cc: Andy Martin
Subject: Sample receipt confirmation analyses

Hi Danielle,

In regards to the anomalies with the samples received yesterday:

1. For the extra TSS bottle, please analyze it using the sample ID on the label (that is a correct name/time/date)
2. For any times that do not match the COC, please use the time on the LABEL, that will be the most accurate

Thank you for checking

Best,
Claire

Claire Dolphin

Environmental Scientist

ANCHOR QEA, LLC

cdolphin@anchorqea.com

27201 Puerta Real, Suite 350

Mission Viejo, CA 92691

T 949.347.2780

D 949.334.9615

ANCHOR QEA, LLC

www.anchorqea.com

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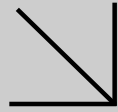
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WORK ORDER NUMBER: 15-02-1895

The difference is service



AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: ANCHOR QEA, LLC

Client Project Name: GWMA - TMDL Compliance Monitoring

Attention: Andy Martin
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Approved for release on 03/17/2015 by:
Danielle Gonsman
Project Manager

ResultLink ▶

Email your PM ▶



Eurofins Calscience, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

Contents

Client Project Name: GWMA - TMDL Compliance Monitoring
 Work Order Number: 15-02-1895

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Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 02/25/15. They were assigned to Work Order 15-02-1895.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of ≤ 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.



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Sample Summary

| | |
|------------------------------|---|
| Client: ANCHOR QEA, LLC | Work Order: 15-02-1895 |
| 27201 Puerta Real, Suite 350 | Project Name: GWMA - TMDL Compliance Monitoring |
| Mission Viejo, CA 92691-8306 | PO Number: |
| | Date/Time Received: 02/25/15 13:30 |
| | Number of Containers: 82 |

Attn: Andy Martin

| Sample Identification | Lab Number | Collection Date and Time | Number of Containers | Matrix |
|-------------------------|---------------|--------------------------|----------------------|-----------|
| IB-RW-12-G-S-20150224 | 15-02-1895-1 | 02/24/15 08:46 | 8 | Sea Water |
| IB-RW-12-G-M-20150224 | 15-02-1895-2 | 02/24/15 09:05 | 1 | Sea Water |
| IB-RW-12-G-B-20150224 | 15-02-1895-3 | 02/24/15 09:09 | 1 | Sea Water |
| IB-RW-13-G-S-20150224 | 15-02-1895-4 | 02/24/15 09:35 | 8 | Sea Water |
| IB-RW-13-G-M-20150224 | 15-02-1895-5 | 02/24/15 09:52 | 1 | Sea Water |
| IB-RW-13-G-B-20150224 | 15-02-1895-6 | 02/24/15 09:57 | 1 | Sea Water |
| IB-RW-14-G-S-20150224 | 15-02-1895-7 | 02/24/15 10:24 | 8 | Sea Water |
| IB-RW-14-G-M-20150224 | 15-02-1895-8 | 02/24/15 10:33 | 1 | Sea Water |
| IB-RW-14-G-B-20150224 | 15-02-1895-9 | 02/24/15 10:42 | 1 | Sea Water |
| IB-RW-15-G-S-20150224 | 15-02-1895-10 | 02/24/15 12:05 | 8 | Sea Water |
| IB-RW-15-G-M-20150224 | 15-02-1895-11 | 02/24/15 12:15 | 1 | Sea Water |
| IB-RW-1015-G-M-20150224 | 15-02-1895-12 | 02/24/15 12:16 | 1 | Sea Water |
| IB-RW-15-G-B-20150224 | 15-02-1895-13 | 02/24/15 12:19 | 1 | Sea Water |
| OB-RW-16-G-S-20150224 | 15-02-1895-14 | 02/24/15 12:45 | 8 | Sea Water |
| OB-RW-16-G-M-20150224 | 15-02-1895-15 | 02/24/15 12:51 | 1 | Sea Water |
| OB-RW-16-G-B-20150224 | 15-02-1895-16 | 02/24/15 12:54 | 1 | Sea Water |
| OB-RW-08-G-S-20150224 | 15-02-1895-17 | 02/24/15 13:05 | 8 | Sea Water |
| OB-RW-08-G-M-20150224 | 15-02-1895-18 | 02/24/15 13:10 | 1 | Sea Water |
| OB-RW-08-G-B-20150224 | 15-02-1895-19 | 02/24/15 13:15 | 1 | Sea Water |
| OB-RW-08-G-13-20150224 | 15-02-1895-20 | 02/24/15 13:16 | 1 | Sea Water |
| OB-RW-09-G-S-20150224 | 15-02-1895-21 | 02/24/15 13:45 | 8 | Sea Water |
| OB-RW-09-G-M-20150224 | 15-02-1895-22 | 02/24/15 14:05 | 1 | Sea Water |
| OB-RW-09-G-B-20150224 | 15-02-1895-23 | 02/24/15 14:10 | 1 | Sea Water |
| CB-RW-11-G-S-20150224 | 15-02-1895-24 | 02/24/15 14:23 | 8 | Sea Water |
| CB-RW-11-G-M-20150224 | 15-02-1895-25 | 02/24/15 14:30 | 1 | Sea Water |
| CB-RW-11-G-B-20150224 | 15-02-1895-26 | 02/24/15 14:33 | 1 | Sea Water |


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Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 02/25/15
Work Order: 15-02-1895
Preparation: N/A
Method: SM 2540 D
Units: mg/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IB-RW-12-G-S-20150224 | 15-02-1895-1-H | 02/24/15 08:46 | Sea Water | N/A | 03/02/15 | 03/02/15 17:00 | F0302TSSL6 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | ND | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IB-RW-12-G-M-20150224 | 15-02-1895-2-A | 02/24/15 09:05 | Sea Water | N/A | 03/02/15 | 03/02/15 17:00 | F0302TSSL6 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 1.0 | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IB-RW-12-G-B-20150224 | 15-02-1895-3-A | 02/24/15 09:09 | Sea Water | N/A | 03/02/15 | 03/02/15 17:00 | F0302TSSL6 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | ND | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IB-RW-13-G-S-20150224 | 15-02-1895-4-H | 02/24/15 09:35 | Sea Water | N/A | 03/02/15 | 03/02/15 17:00 | F0302TSSL6 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 1.0 | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IB-RW-13-G-M-20150224 | 15-02-1895-5-A | 02/24/15 09:52 | Sea Water | N/A | 03/02/15 | 03/02/15 17:00 | F0302TSSL6 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 1.6 | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IB-RW-13-G-B-20150224 | 15-02-1895-6-A | 02/24/15 09:57 | Sea Water | N/A | 03/02/15 | 03/02/15 17:00 | F0302TSSL6 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 2.7 | 1.0 | 0.95 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 02/25/15
Work Order: 15-02-1895
Preparation: N/A
Method: SM 2540 D
Units: mg/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IB-RW-14-G-S-20150224 | 15-02-1895-7-H | 02/24/15 10:24 | Sea Water | N/A | 03/02/15 | 03/02/15 17:00 | F0302TSSL6 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | ND | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IB-RW-14-G-M-20150224 | 15-02-1895-8-A | 02/24/15 10:33 | Sea Water | N/A | 03/02/15 | 03/02/15 17:00 | F0302TSSL6 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | ND | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IB-RW-14-G-B-20150224 | 15-02-1895-9-A | 02/24/15 10:42 | Sea Water | N/A | 03/02/15 | 03/02/15 17:00 | F0302TSSL6 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | ND | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IB-RW-15-G-S-20150224 | 15-02-1895-10-H | 02/24/15 12:05 | Sea Water | N/A | 03/02/15 | 03/02/15 17:00 | F0302TSSL6 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | ND | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IB-RW-15-G-M-20150224 | 15-02-1895-11-A | 02/24/15 12:15 | Sea Water | N/A | 03/02/15 | 03/02/15 17:00 | F0302TSSL6 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | ND | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-------------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IB-RW-1015-G-M-20150224 | 15-02-1895-12-A | 02/24/15 12:16 | Sea Water | N/A | 03/02/15 | 03/02/15 17:00 | F0302TSSL6 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | ND | 1.0 | 0.95 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 02/25/15
Work Order: 15-02-1895
Preparation: N/A
Method: SM 2540 D
Units: mg/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IB-RW-15-G-B-20150224 | 15-02-1895-13-A | 02/24/15 12:19 | Sea Water | N/A | 03/02/15 | 03/02/15 17:00 | F0302TSSL6 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | ND | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OB-RW-16-G-S-20150224 | 15-02-1895-14-H | 02/24/15 12:45 | Sea Water | N/A | 03/02/15 | 03/02/15 17:00 | F0302TSSL6 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 1.1 | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OB-RW-16-G-M-20150224 | 15-02-1895-15-A | 02/24/15 12:51 | Sea Water | N/A | 03/02/15 | 03/02/15 17:00 | F0302TSSL6 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | ND | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OB-RW-16-G-B-20150224 | 15-02-1895-16-A | 02/24/15 12:54 | Sea Water | N/A | 03/02/15 | 03/02/15 17:00 | F0302TSSL6 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | ND | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OB-RW-08-G-S-20150224 | 15-02-1895-17-H | 02/24/15 13:05 | Sea Water | N/A | 03/02/15 | 03/02/15 17:00 | F0302TSSL6 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | ND | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OB-RW-08-G-M-20150224 | 15-02-1895-18-A | 02/24/15 13:10 | Sea Water | N/A | 03/02/15 | 03/02/15 17:00 | F0302TSSL6 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | ND | 1.0 | 0.95 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 02/25/15
Work Order: 15-02-1895
Preparation: N/A
Method: SM 2540 D
Units: mg/L

Project: GWMA - TMDL Compliance Monitoring

Page 4 of 5

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OB-RW-08-G-B-20150224 | 15-02-1895-19-A | 02/24/15 13:15 | Sea Water | N/A | 03/02/15 | 03/02/15 17:00 | F0302TSSL6 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | ND | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|------------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OB-RW-08-G-13-20150224 | 15-02-1895-20-A | 02/24/15 13:16 | Sea Water | N/A | 03/02/15 | 03/02/15 17:00 | F0302TSSL6 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | ND | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OB-RW-09-G-S-20150224 | 15-02-1895-21-H | 02/24/15 13:45 | Sea Water | N/A | 03/02/15 | 03/02/15 22:00 | F0302TSSL5 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | ND | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OB-RW-09-G-M-20150224 | 15-02-1895-22-A | 02/24/15 14:05 | Sea Water | N/A | 03/02/15 | 03/02/15 22:00 | F0302TSSL5 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | ND | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OB-RW-09-G-B-20150224 | 15-02-1895-23-A | 02/24/15 14:10 | Sea Water | N/A | 03/02/15 | 03/02/15 22:00 | F0302TSSL5 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | ND | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| CB-RW-11-G-S-20150224 | 15-02-1895-24-H | 02/24/15 14:23 | Sea Water | N/A | 03/02/15 | 03/02/15 22:00 | F0302TSSL5 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 2.6 | 1.0 | 0.95 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 02/25/15
Work Order: 15-02-1895
Preparation: N/A
Method: SM 2540 D
Units: mg/L

Project: GWMA - TMDL Compliance Monitoring

Page 5 of 5

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| CB-RW-11-G-M-20150224 | 15-02-1895-25-A | 02/24/15 14:30 | Sea Water | N/A | 03/02/15 | 03/02/15 22:00 | F0302TSSL5 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 3.8 | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| CB-RW-11-G-B-20150224 | 15-02-1895-26-A | 02/24/15 14:33 | Sea Water | N/A | 03/02/15 | 03/02/15 22:00 | F0302TSSL5 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 3.6 | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|---------|------------|---------------|--------------------|-------------|
| Method Blank | 099-09-010-7074 | N/A | Aqueous | N/A | 03/02/15 | 03/02/15 22:00 | F0302TSSL5 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | ND | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|---------|------------|---------------|--------------------|-------------|
| Method Blank | 099-09-010-7095 | N/A | Aqueous | N/A | 03/02/15 | 03/02/15 17:00 | F0302TSSL6 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | ND | 1.0 | 0.95 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 02/25/15
Work Order: 15-02-1895
Preparation: EPA 1631E Total
Method: EPA 1631E
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

Page 1 of 2

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IB-RW-12-G-S-20150224 | 15-02-1895-1-A | 02/24/15 08:46 | Sea Water | Hg/AF 1 | 03/09/15 | 03/09/15 00:00 | 150309L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|---------|----------|----------|------|------------|
| Mercury | 0.00873 | 0.000500 | 0.000113 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IB-RW-13-G-S-20150224 | 15-02-1895-4-B | 02/24/15 09:35 | Sea Water | Hg/AF 1 | 03/09/15 | 03/09/15 00:00 | 150309L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|---------|----------|----------|------|------------|
| Mercury | 0.00424 | 0.000500 | 0.000113 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IB-RW-14-G-S-20150224 | 15-02-1895-7-A | 02/24/15 10:24 | Sea Water | Hg/AF 1 | 03/09/15 | 03/09/15 00:00 | 150309L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|---------|----------|----------|------|------------|
| Mercury | 0.00341 | 0.000500 | 0.000113 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IB-RW-15-G-S-20150224 | 15-02-1895-10-A | 02/24/15 12:05 | Sea Water | Hg/AF 1 | 03/09/15 | 03/09/15 00:00 | 150309L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|---------|----------|----------|------|------------|
| Mercury | 0.00318 | 0.000500 | 0.000113 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OB-RW-16-G-S-20150224 | 15-02-1895-14-B | 02/24/15 12:45 | Sea Water | Hg/AF 1 | 03/09/15 | 03/09/15 00:00 | 150309L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|---------|----------|----------|------|------------|
| Mercury | 0.00333 | 0.000500 | 0.000113 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OB-RW-08-G-S-20150224 | 15-02-1895-17-A | 02/24/15 13:05 | Sea Water | Hg/AF 1 | 03/09/15 | 03/09/15 00:00 | 150309L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|---------|----------|----------|------|------------|
| Mercury | 0.00422 | 0.000500 | 0.000113 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 02/25/15
Work Order: 15-02-1895
Preparation: EPA 1631E Total
Method: EPA 1631E
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

Page 2 of 2

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OB-RW-09-G-S-20150224 | 15-02-1895-21-A | 02/24/15 13:45 | Sea Water | Hg/AF 1 | 03/09/15 | 03/09/15 00:00 | 150309L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|---------|----------|----------|------|------------|
| Mercury | 0.00355 | 0.000500 | 0.000113 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| CB-RW-11-G-S-20150224 | 15-02-1895-24-A | 02/24/15 14:23 | Sea Water | Hg/AF 1 | 03/09/15 | 03/09/15 00:00 | 150309L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|---------|----------|----------|------|------------|
| Mercury | 0.00439 | 0.000500 | 0.000113 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|---------|------------|---------------|--------------------|-------------|
| Method Blank | 099-15-224-77 | N/A | Aqueous | Hg/AF 1 | 03/09/15 | 03/09/15 00:00 | 150309L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|----------|----------|------|------------|
| Mercury | ND | 0.000500 | 0.000113 | 1.00 | |

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 02/25/15
Work Order: 15-02-1895
Preparation: Filtered
Method: EPA 1631E
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

Page 1 of 2

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IB-RW-12-G-S-20150224 | 15-02-1895-1-B | 02/24/15 08:46 | Sea Water | Hg/AF 1 | 03/09/15 | 03/09/15 00:00 | 150309L01F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|----------|----------|----------|------|------------|
| Mercury | 0.000214 | 0.000500 | 0.000113 | 1.00 | J |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IB-RW-13-G-S-20150224 | 15-02-1895-4-A | 02/24/15 09:35 | Sea Water | Hg/AF 1 | 03/09/15 | 03/09/15 00:00 | 150309L01F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|---------|----------|----------|------|------------|
| Mercury | 0.00165 | 0.000500 | 0.000113 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IB-RW-14-G-S-20150224 | 15-02-1895-7-B | 02/24/15 10:24 | Sea Water | Hg/AF 1 | 03/09/15 | 03/09/15 00:00 | 150309L01F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|---------|----------|----------|------|------------|
| Mercury | 0.00170 | 0.000500 | 0.000113 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IB-RW-15-G-S-20150224 | 15-02-1895-10-B | 02/24/15 12:05 | Sea Water | Hg/AF 1 | 03/09/15 | 03/09/15 00:00 | 150309L01F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|---------|----------|----------|------|------------|
| Mercury | 0.00182 | 0.000500 | 0.000113 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OB-RW-16-G-S-20150224 | 15-02-1895-14-A | 02/24/15 12:45 | Sea Water | Hg/AF 1 | 03/09/15 | 03/09/15 00:00 | 150309L01F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|---------|----------|----------|------|------------|
| Mercury | 0.00211 | 0.000500 | 0.000113 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OB-RW-08-G-S-20150224 | 15-02-1895-17-B | 02/24/15 13:05 | Sea Water | Hg/AF 1 | 03/09/15 | 03/09/15 00:00 | 150309L01F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|---------|----------|----------|------|------------|
| Mercury | 0.00164 | 0.000500 | 0.000113 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 02/25/15
Work Order: 15-02-1895
Preparation: Filtered
Method: EPA 1631E
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

Page 2 of 2

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OB-RW-09-G-S-20150224 | 15-02-1895-21-B | 02/24/15 13:45 | Sea Water | Hg/AF 1 | 03/09/15 | 03/09/15 00:00 | 150309L01F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|---------|----------|----------|------|------------|
| Mercury | 0.00224 | 0.000500 | 0.000113 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| CB-RW-11-G-S-20150224 | 15-02-1895-24-B | 02/24/15 14:23 | Sea Water | Hg/AF 1 | 03/09/15 | 03/09/15 00:00 | 150309L01F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|---------|----------|----------|------|------------|
| Mercury | 0.00156 | 0.000500 | 0.000113 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|---------|------------|---------------|--------------------|-------------|
| Method Blank | 099-15-226-59 | N/A | Aqueous | Hg/AF 1 | 03/09/15 | 03/09/15 00:00 | 150309L01F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|----------|----------|------|------------|
| Mercury | ND | 0.000500 | 0.000113 | 1.00 | |

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 02/25/15
Work Order: 15-02-1895
Preparation: EPA 3005A Total
Method: EPA 1640
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IB-RW-12-G-S-20150224 | 15-02-1895-1-D | 02/24/15 08:46 | Sea Water | ICP/MS 05 | 03/05/15 | 03/10/15 02:19 | 150305L02 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0636 | 0.0300 | 0.00567 | 1.00 | B |
| Chromium | 0.465 | 0.500 | 0.164 | 1.00 | J |
| Copper | 6.55 | 0.0300 | 0.00898 | 1.00 | B |
| Lead | 0.424 | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 14.3 | 0.500 | 0.0736 | 1.00 | B |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IB-RW-13-G-S-20150224 | 15-02-1895-4-D | 02/24/15 09:35 | Sea Water | ICP/MS 05 | 03/05/15 | 03/10/15 01:30 | 150305L02 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0513 | 0.0300 | 0.00567 | 1.00 | B |
| Chromium | 1.02 | 0.500 | 0.164 | 1.00 | |
| Copper | 2.20 | 0.0300 | 0.00898 | 1.00 | B |
| Lead | 0.220 | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 10.6 | 0.500 | 0.0736 | 1.00 | B |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IB-RW-14-G-S-20150224 | 15-02-1895-7-D | 02/24/15 10:24 | Sea Water | ICP/MS 05 | 03/05/15 | 03/10/15 01:38 | 150305L02 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0466 | 0.0300 | 0.00567 | 1.00 | B |
| Chromium | 0.346 | 0.500 | 0.164 | 1.00 | J |
| Copper | 1.51 | 0.0300 | 0.00898 | 1.00 | B |
| Lead | 0.126 | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 3.31 | 0.500 | 0.0736 | 1.00 | B |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 02/25/15
Work Order: 15-02-1895
Preparation: EPA 3005A Total
Method: EPA 1640
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

Page 2 of 3

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IB-RW-15-G-S-20150224 | 15-02-1895-10-D | 02/24/15 12:05 | Sea Water | ICP/MS 05 | 03/05/15 | 03/10/15 01:46 | 150305L02 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0428 | 0.0300 | 0.00567 | 1.00 | B |
| Chromium | 0.319 | 0.500 | 0.164 | 1.00 | J |
| Copper | 1.73 | 0.0300 | 0.00898 | 1.00 | B |
| Lead | 0.144 | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 4.02 | 0.500 | 0.0736 | 1.00 | B |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OB-RW-16-G-S-20150224 | 15-02-1895-14-D | 02/24/15 12:45 | Sea Water | ICP/MS 05 | 03/05/15 | 03/10/15 01:54 | 150305L02 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0421 | 0.0300 | 0.00567 | 1.00 | B |
| Chromium | 0.368 | 0.500 | 0.164 | 1.00 | J |
| Copper | 1.07 | 0.0300 | 0.00898 | 1.00 | B |
| Lead | 0.140 | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 2.38 | 0.500 | 0.0736 | 1.00 | B |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OB-RW-08-G-S-20150224 | 15-02-1895-17-D | 02/24/15 13:05 | Sea Water | ICP/MS 05 | 03/05/15 | 03/10/15 02:02 | 150305L02 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0429 | 0.0300 | 0.00567 | 1.00 | B |
| Chromium | 0.399 | 0.500 | 0.164 | 1.00 | J |
| Copper | 1.71 | 0.0300 | 0.00898 | 1.00 | B |
| Lead | 0.128 | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 2.34 | 0.500 | 0.0736 | 1.00 | B |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 02/25/15
Work Order: 15-02-1895
Preparation: EPA 3005A Total
Method: EPA 1640
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

Page 3 of 3

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OB-RW-09-G-S-20150224 | 15-02-1895-21-D | 02/24/15 13:45 | Sea Water | ICP/MS 05 | 03/05/15 | 03/10/15 02:11 | 150305L02 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0478 | 0.0300 | 0.00567 | 1.00 | B |
| Chromium | 0.438 | 0.500 | 0.164 | 1.00 | J |
| Copper | 1.54 | 0.0300 | 0.00898 | 1.00 | B |
| Lead | 0.124 | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 2.97 | 0.500 | 0.0736 | 1.00 | B |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| CB-RW-11-G-S-20150224 | 15-02-1895-24-D | 02/24/15 14:23 | Sea Water | ICP/MS 05 | 03/05/15 | 03/10/15 01:22 | 150305L02 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0597 | 0.0300 | 0.00567 | 1.00 | B |
| Chromium | 0.532 | 0.500 | 0.164 | 1.00 | |
| Copper | 3.04 | 0.0300 | 0.00898 | 1.00 | B |
| Lead | 0.204 | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 8.44 | 0.500 | 0.0736 | 1.00 | B |

| Method Blank | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|--------------|-------------------|---------------------|---------|------------|---------------|--------------------|-------------|
| Method Blank | 099-13-067-496 | N/A | Aqueous | ICP/MS 05 | 03/05/15 | 03/05/15 18:25 | 150305L02 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0166 | 0.0300 | 0.00567 | 1.00 | J |
| Chromium | ND | 0.500 | 0.164 | 1.00 | |
| Copper | 0.0256 | 0.0300 | 0.00898 | 1.00 | J |
| Lead | ND | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 0.248 | 0.500 | 0.0736 | 1.00 | J |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 02/25/15
Work Order: 15-02-1895
Preparation: EPA 3005A Filt.
Method: EPA 1640
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

Page 1 of 3

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IB-RW-12-G-S-20150224 | 15-02-1895-1-C | 02/24/15 08:46 | Sea Water | ICP/MS 05 | 03/05/15 | 03/09/15 22:34 | 150305L02F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0589 | 0.0300 | 0.00567 | 1.00 | B |
| Chromium | 0.205 | 0.500 | 0.164 | 1.00 | J |
| Copper | 3.35 | 0.0300 | 0.00898 | 1.00 | B |
| Lead | 0.0630 | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 11.9 | 0.500 | 0.0736 | 1.00 | B |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IB-RW-13-G-S-20150224 | 15-02-1895-4-C | 02/24/15 09:35 | Sea Water | ICP/MS 05 | 03/05/15 | 03/09/15 22:42 | 150305L02F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0497 | 0.0300 | 0.00567 | 1.00 | B |
| Chromium | 0.237 | 0.500 | 0.164 | 1.00 | J |
| Copper | 1.65 | 0.0300 | 0.00898 | 1.00 | B |
| Lead | 0.0306 | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 8.30 | 0.500 | 0.0736 | 1.00 | B |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IB-RW-14-G-S-20150224 | 15-02-1895-7-C | 02/24/15 10:24 | Sea Water | ICP/MS 05 | 03/05/15 | 03/09/15 22:50 | 150305L02F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0491 | 0.0300 | 0.00567 | 1.00 | B |
| Chromium | 0.225 | 0.500 | 0.164 | 1.00 | J |
| Copper | 0.853 | 0.0300 | 0.00898 | 1.00 | B |
| Lead | 0.0214 | 0.0300 | 0.0135 | 1.00 | J |
| Zinc | 3.52 | 0.500 | 0.0736 | 1.00 | B |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 02/25/15
Work Order: 15-02-1895
Preparation: EPA 3005A Filt.
Method: EPA 1640
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

Page 2 of 3

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IB-RW-15-G-S-20150224 | 15-02-1895-10-C | 02/24/15 12:05 | Sea Water | ICP/MS 05 | 03/05/15 | 03/09/15 22:58 | 150305L02F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0453 | 0.0300 | 0.00567 | 1.00 | B |
| Chromium | 0.227 | 0.500 | 0.164 | 1.00 | J |
| Copper | 1.05 | 0.0300 | 0.00898 | 1.00 | B |
| Lead | 0.0278 | 0.0300 | 0.0135 | 1.00 | J |
| Zinc | 3.08 | 0.500 | 0.0736 | 1.00 | B |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OB-RW-16-G-S-20150224 | 15-02-1895-14-C | 02/24/15 12:45 | Sea Water | ICP/MS 05 | 03/05/15 | 03/09/15 23:38 | 150305L02F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0440 | 0.0300 | 0.00567 | 1.00 | B |
| Chromium | 0.218 | 0.500 | 0.164 | 1.00 | J |
| Copper | 0.760 | 0.0300 | 0.00898 | 1.00 | B |
| Lead | 0.0390 | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 2.27 | 0.500 | 0.0736 | 1.00 | B |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OB-RW-08-G-S-20150224 | 15-02-1895-17-C | 02/24/15 13:05 | Sea Water | ICP/MS 05 | 03/05/15 | 03/09/15 23:46 | 150305L02F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0429 | 0.0300 | 0.00567 | 1.00 | B |
| Chromium | 0.230 | 0.500 | 0.164 | 1.00 | J |
| Copper | 0.750 | 0.0300 | 0.00898 | 1.00 | B |
| Lead | 0.0307 | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 2.29 | 0.500 | 0.0736 | 1.00 | B |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 02/25/15
Work Order: 15-02-1895
Preparation: EPA 3005A Filt.
Method: EPA 1640
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

Page 3 of 3

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OB-RW-09-G-S-20150224 | 15-02-1895-21-C | 02/24/15 13:45 | Sea Water | ICP/MS 05 | 03/05/15 | 03/10/15 00:34 | 150305L02F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0428 | 0.0300 | 0.00567 | 1.00 | B |
| Chromium | 0.231 | 0.500 | 0.164 | 1.00 | J |
| Copper | 0.854 | 0.0300 | 0.00898 | 1.00 | B |
| Lead | 0.0222 | 0.0300 | 0.0135 | 1.00 | J |
| Zinc | 3.22 | 0.500 | 0.0736 | 1.00 | B |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| CB-RW-11-G-S-20150224 | 15-02-1895-24-C | 02/24/15 14:23 | Sea Water | ICP/MS 05 | 03/05/15 | 03/10/15 00:42 | 150305L02F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0628 | 0.0300 | 0.00567 | 1.00 | B |
| Chromium | 0.230 | 0.500 | 0.164 | 1.00 | J |
| Copper | 1.49 | 0.0300 | 0.00898 | 1.00 | B |
| Lead | 0.0238 | 0.0300 | 0.0135 | 1.00 | J |
| Zinc | 7.51 | 0.500 | 0.0736 | 1.00 | B |

| Method Blank | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|--------------|-------------------|---------------------|---------|------------|---------------|--------------------|-------------|
| Method Blank | 099-15-823-135 | N/A | Aqueous | ICP/MS 05 | 03/05/15 | 03/05/15 18:33 | 150305L02F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0170 | 0.0300 | 0.00567 | 1.00 | J |
| Chromium | ND | 0.500 | 0.164 | 1.00 | |
| Copper | 0.0260 | 0.0300 | 0.00898 | 1.00 | J |
| Lead | ND | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 0.249 | 0.500 | 0.0736 | 1.00 | J |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 02/25/15
Work Order: 15-02-1895
Preparation: EPA 3510C
Method: EPA 8081A
Units: ng/L

Project: GWMA - TMDL Compliance Monitoring

Page 1 of 9

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IB-RW-12-G-S-20150224 | 15-02-1895-1-F | 02/24/15 08:46 | Sea Water | GC 44 | 03/02/15 | 03/06/15 19:00 | 150302L18 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------------------------|----------|----------------|------------|------|------------|
| 2,4'-DDD | ND | 1.9 | 0.57 | 1.00 | |
| 2,4'-DDE | ND | 1.9 | 0.47 | 1.00 | |
| 2,4'-DDT | ND | 1.9 | 0.67 | 1.00 | |
| 4,4'-DDD | ND | 1.9 | 0.53 | 1.00 | |
| 4,4'-DDE | ND | 1.9 | 0.46 | 1.00 | |
| 4,4'-DDT | ND | 1.9 | 0.54 | 1.00 | |
| Alpha Chlordane | ND | 1.9 | 0.48 | 1.00 | |
| Cis-nonachlor | ND | 1.9 | 0.49 | 1.00 | |
| Dieldrin | ND | 1.9 | 0.53 | 1.00 | |
| Gamma Chlordane | ND | 1.9 | 0.47 | 1.00 | |
| Oxychlordane | ND | 1.9 | 0.61 | 1.00 | |
| Toxaphene | ND | 24 | 8.0 | 1.00 | |
| Trans-nonachlor | ND | 1.9 | 0.54 | 1.00 | |
| Surrogate | Rec. (%) | Control Limits | Qualifiers | | |
| Decachlorobiphenyl | 127 | 50-150 | | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 123 | 50-150 | | | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 02/25/15
Work Order: 15-02-1895
Preparation: EPA 3510C
Method: EPA 8081A
Units: ng/L

Project: GWMA - TMDL Compliance Monitoring

Page 2 of 9

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IB-RW-13-G-S-20150224 | 15-02-1895-4-F | 02/24/15 09:35 | Sea Water | GC 44 | 03/02/15 | 03/06/15 19:14 | 150302L18 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------------------------|----------|----------------|------------|------|------------|
| 2,4'-DDD | ND | 1.9 | 0.56 | 1.00 | |
| 2,4'-DDE | ND | 1.9 | 0.47 | 1.00 | |
| 2,4'-DDT | ND | 1.9 | 0.66 | 1.00 | |
| 4,4'-DDD | ND | 1.9 | 0.53 | 1.00 | |
| 4,4'-DDE | ND | 1.9 | 0.46 | 1.00 | |
| 4,4'-DDT | ND | 1.9 | 0.53 | 1.00 | |
| Alpha Chlordane | ND | 1.9 | 0.47 | 1.00 | |
| Cis-nonachlor | ND | 1.9 | 0.48 | 1.00 | |
| Dieldrin | ND | 1.9 | 0.53 | 1.00 | |
| Gamma Chlordane | ND | 1.9 | 0.47 | 1.00 | |
| Oxychlordane | ND | 1.9 | 0.60 | 1.00 | |
| Toxaphene | ND | 24 | 7.9 | 1.00 | |
| Trans-nonachlor | ND | 1.9 | 0.54 | 1.00 | |
| Surrogate | Rec. (%) | Control Limits | Qualifiers | | |
| Decachlorobiphenyl | 121 | 50-150 | | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 108 | 50-150 | | | |

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 02/25/15
Work Order: 15-02-1895
Preparation: EPA 3510C
Method: EPA 8081A
Units: ng/L

Project: GWMA - TMDL Compliance Monitoring

Page 3 of 9

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IB-RW-14-G-S-20150224 | 15-02-1895-7-G | 02/24/15 10:24 | Sea Water | GC 44 | 03/02/15 | 03/06/15 19:28 | 150302L18 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------------------------|----------|----------------|------------|------|------------|
| 2,4'-DDD | ND | 1.9 | 0.56 | 1.00 | |
| 2,4'-DDE | ND | 1.9 | 0.47 | 1.00 | |
| 2,4'-DDT | ND | 1.9 | 0.66 | 1.00 | |
| 4,4'-DDD | ND | 1.9 | 0.53 | 1.00 | |
| 4,4'-DDE | ND | 1.9 | 0.46 | 1.00 | |
| 4,4'-DDT | ND | 1.9 | 0.53 | 1.00 | |
| Alpha Chlordane | ND | 1.9 | 0.47 | 1.00 | |
| Cis-nonachlor | ND | 1.9 | 0.48 | 1.00 | |
| Dieldrin | ND | 1.9 | 0.53 | 1.00 | |
| Gamma Chlordane | ND | 1.9 | 0.47 | 1.00 | |
| Oxychlordane | ND | 1.9 | 0.60 | 1.00 | |
| Toxaphene | ND | 24 | 7.9 | 1.00 | |
| Trans-nonachlor | ND | 1.9 | 0.54 | 1.00 | |
| Surrogate | Rec. (%) | Control Limits | Qualifiers | | |
| Decachlorobiphenyl | 150 | 50-150 | | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 143 | 50-150 | | | |

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 02/25/15
Work Order: 15-02-1895
Preparation: EPA 3510C
Method: EPA 8081A
Units: ng/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IB-RW-15-G-S-20150224 | 15-02-1895-10-F | 02/24/15 12:05 | Sea Water | GC 44 | 03/02/15 | 03/06/15 19:43 | 150302L18 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------------------------|----------|----------------|------------|------|------------|
| 2,4'-DDD | ND | 1.9 | 0.56 | 1.00 | |
| 2,4'-DDE | ND | 1.9 | 0.47 | 1.00 | |
| 2,4'-DDT | ND | 1.9 | 0.66 | 1.00 | |
| 4,4'-DDD | ND | 1.9 | 0.53 | 1.00 | |
| 4,4'-DDE | ND | 1.9 | 0.46 | 1.00 | |
| 4,4'-DDT | ND | 1.9 | 0.53 | 1.00 | |
| Alpha Chlordane | ND | 1.9 | 0.47 | 1.00 | |
| Cis-nonachlor | ND | 1.9 | 0.48 | 1.00 | |
| Dieldrin | ND | 1.9 | 0.53 | 1.00 | |
| Gamma Chlordane | ND | 1.9 | 0.47 | 1.00 | |
| Oxychlordane | ND | 1.9 | 0.60 | 1.00 | |
| Toxaphene | ND | 24 | 7.9 | 1.00 | |
| Trans-nonachlor | ND | 1.9 | 0.54 | 1.00 | |
| Surrogate | Rec. (%) | Control Limits | Qualifiers | | |
| Decachlorobiphenyl | 110 | 50-150 | | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 100 | 50-150 | | | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 02/25/15
 Work Order: 15-02-1895
 Preparation: EPA 3510C
 Method: EPA 8081A
 Units: ng/L

Project: GWMA - TMDL Compliance Monitoring

Page 5 of 9

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OB-RW-16-G-S-20150224 | 15-02-1895-14-F | 02/24/15 12:45 | Sea Water | GC 44 | 03/02/15 | 03/06/15 19:57 | 150302L18 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------------------------|----------|----------------|------------|------|------------|
| 2,4'-DDD | ND | 2.0 | 0.57 | 1.00 | |
| 2,4'-DDE | ND | 2.0 | 0.48 | 1.00 | |
| 2,4'-DDT | ND | 2.0 | 0.67 | 1.00 | |
| 4,4'-DDD | ND | 2.0 | 0.54 | 1.00 | |
| 4,4'-DDE | ND | 2.0 | 0.47 | 1.00 | |
| 4,4'-DDT | ND | 2.0 | 0.54 | 1.00 | |
| Alpha Chlordane | ND | 2.0 | 0.48 | 1.00 | |
| Cis-nonachlor | ND | 2.0 | 0.49 | 1.00 | |
| Dieldrin | ND | 2.0 | 0.54 | 1.00 | |
| Gamma Chlordane | ND | 2.0 | 0.48 | 1.00 | |
| Oxychlordane | ND | 2.0 | 0.61 | 1.00 | |
| Toxaphene | ND | 25 | 8.1 | 1.00 | |
| Trans-nonachlor | ND | 2.0 | 0.55 | 1.00 | |
| Surrogate | Rec. (%) | Control Limits | Qualifiers | | |
| Decachlorobiphenyl | 132 | 50-150 | | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 125 | 50-150 | | | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 02/25/15
Work Order: 15-02-1895
Preparation: EPA 3510C
Method: EPA 8081A
Units: ng/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OB-RW-08-G-S-20150224 | 15-02-1895-17-F | 02/24/15 13:05 | Sea Water | GC 44 | 03/02/15 | 03/06/15 20:11 | 150302L18 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------------------------|----------|----------------|------------|------|------------|
| 2,4'-DDD | ND | 1.9 | 0.56 | 1.00 | |
| 2,4'-DDE | ND | 1.9 | 0.47 | 1.00 | |
| 2,4'-DDT | ND | 1.9 | 0.66 | 1.00 | |
| 4,4'-DDD | ND | 1.9 | 0.53 | 1.00 | |
| 4,4'-DDE | ND | 1.9 | 0.46 | 1.00 | |
| 4,4'-DDT | ND | 1.9 | 0.53 | 1.00 | |
| Alpha Chlordane | ND | 1.9 | 0.47 | 1.00 | |
| Cis-nonachlor | ND | 1.9 | 0.48 | 1.00 | |
| Dieldrin | ND | 1.9 | 0.53 | 1.00 | |
| Gamma Chlordane | ND | 1.9 | 0.47 | 1.00 | |
| Oxychlordane | ND | 1.9 | 0.60 | 1.00 | |
| Toxaphene | ND | 24 | 7.9 | 1.00 | |
| Trans-nonachlor | ND | 1.9 | 0.54 | 1.00 | |
| Surrogate | Rec. (%) | Control Limits | Qualifiers | | |
| Decachlorobiphenyl | 119 | 50-150 | | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 118 | 50-150 | | | |

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 02/25/15
Work Order: 15-02-1895
Preparation: EPA 3510C
Method: EPA 8081A
Units: ng/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OB-RW-09-G-S-20150224 | 15-02-1895-21-F | 02/24/15 13:45 | Sea Water | GC 44 | 03/02/15 | 03/06/15 20:25 | 150302L18 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------------------------|----------|----------------|------------|------|------------|
| 2,4'-DDD | ND | 1.9 | 0.56 | 1.00 | |
| 2,4'-DDE | ND | 1.9 | 0.47 | 1.00 | |
| 2,4'-DDT | ND | 1.9 | 0.66 | 1.00 | |
| 4,4'-DDD | ND | 1.9 | 0.53 | 1.00 | |
| 4,4'-DDE | ND | 1.9 | 0.46 | 1.00 | |
| 4,4'-DDT | ND | 1.9 | 0.53 | 1.00 | |
| Alpha Chlordane | ND | 1.9 | 0.47 | 1.00 | |
| Cis-nonachlor | ND | 1.9 | 0.48 | 1.00 | |
| Dieldrin | ND | 1.9 | 0.53 | 1.00 | |
| Gamma Chlordane | ND | 1.9 | 0.47 | 1.00 | |
| Oxychlordane | ND | 1.9 | 0.60 | 1.00 | |
| Toxaphene | ND | 24 | 7.9 | 1.00 | |
| Trans-nonachlor | ND | 1.9 | 0.54 | 1.00 | |
| Surrogate | Rec. (%) | Control Limits | Qualifiers | | |
| Decachlorobiphenyl | 95 | 50-150 | | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 96 | 50-150 | | | |

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 02/25/15
Work Order: 15-02-1895
Preparation: EPA 3510C
Method: EPA 8081A
Units: ng/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| CB-RW-11-G-S-20150224 | 15-02-1895-24-F | 02/24/15 14:23 | Sea Water | GC 44 | 03/02/15 | 03/06/15 20:40 | 150302L18 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------------------------|----------|----------------|------------|------|------------|
| 2,4'-DDD | ND | 1.9 | 0.56 | 1.00 | |
| 2,4'-DDE | ND | 1.9 | 0.47 | 1.00 | |
| 2,4'-DDT | ND | 1.9 | 0.66 | 1.00 | |
| 4,4'-DDD | ND | 1.9 | 0.53 | 1.00 | |
| 4,4'-DDE | ND | 1.9 | 0.46 | 1.00 | |
| 4,4'-DDT | ND | 1.9 | 0.53 | 1.00 | |
| Alpha Chlordane | ND | 1.9 | 0.47 | 1.00 | |
| Cis-nonachlor | ND | 1.9 | 0.48 | 1.00 | |
| Dieldrin | ND | 1.9 | 0.53 | 1.00 | |
| Gamma Chlordane | ND | 1.9 | 0.47 | 1.00 | |
| Oxychlordane | ND | 1.9 | 0.60 | 1.00 | |
| Toxaphene | ND | 24 | 7.9 | 1.00 | |
| Trans-nonachlor | ND | 1.9 | 0.54 | 1.00 | |
| Surrogate | Rec. (%) | Control Limits | Qualifiers | | |
| Decachlorobiphenyl | 115 | 50-150 | | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 116 | 50-150 | | | |

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 02/25/15
Work Order: 15-02-1895
Preparation: EPA 3510C
Method: EPA 8081A
Units: ng/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|---------|------------|---------------|--------------------|-------------|
| Method Blank | 099-16-036-16 | N/A | Aqueous | GC 44 | 03/02/15 | 03/06/15 14:28 | 150302L18 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------------------------|----------|----------------|------------|------|------------|
| 2,4'-DDD | ND | 2.0 | 0.58 | 1.00 | |
| 2,4'-DDE | ND | 2.0 | 0.49 | 1.00 | |
| 2,4'-DDT | ND | 2.0 | 0.69 | 1.00 | |
| 4,4'-DDD | ND | 2.0 | 0.55 | 1.00 | |
| 4,4'-DDE | ND | 2.0 | 0.48 | 1.00 | |
| 4,4'-DDT | ND | 2.0 | 0.55 | 1.00 | |
| Alpha Chlordane | ND | 2.0 | 0.49 | 1.00 | |
| Cis-nonachlor | ND | 2.0 | 0.50 | 1.00 | |
| Dieldrin | ND | 2.0 | 0.55 | 1.00 | |
| Gamma Chlordane | ND | 2.0 | 0.49 | 1.00 | |
| Oxychlordane | ND | 2.0 | 0.63 | 1.00 | |
| Toxaphene | ND | 25 | 8.2 | 1.00 | |
| Trans-nonachlor | ND | 2.0 | 0.56 | 1.00 | |
| Surrogate | Rec. (%) | Control Limits | Qualifiers | | |
| Decachlorobiphenyl | 108 | 50-150 | | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 100 | 50-150 | | | |

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 02/25/15
Work Order: 15-02-1895
Preparation: EPA 3510C
Method: EPA 8270C SIM PCB Congeners
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IB-RW-12-G-S-20150224 | 15-02-1895-1-E | 02/24/15 08:46 | Sea Water | GC/MS HHH | 03/02/15 | 03/06/15 03:58 | 150302L20 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------|--------|--------|---------|------|------------|
| PCB018 | ND | 0.0019 | 0.00040 | 1.00 | |
| PCB028 | ND | 0.0019 | 0.00063 | 1.00 | |
| PCB037 | ND | 0.0019 | 0.00046 | 1.00 | |
| PCB044 | ND | 0.0019 | 0.00074 | 1.00 | |
| PCB049 | ND | 0.0019 | 0.00074 | 1.00 | |
| PCB052 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB066 | ND | 0.0019 | 0.00055 | 1.00 | |
| PCB070 | ND | 0.0019 | 0.00036 | 1.00 | |
| PCB074 | ND | 0.0019 | 0.00041 | 1.00 | |
| PCB077 | ND | 0.0019 | 0.00062 | 1.00 | |
| PCB081 | ND | 0.0019 | 0.00046 | 1.00 | |
| PCB087 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB099 | ND | 0.0019 | 0.00058 | 1.00 | |
| PCB101 | ND | 0.0019 | 0.00055 | 1.00 | |
| PCB105 | ND | 0.0019 | 0.00036 | 1.00 | |
| PCB110 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB114 | ND | 0.0019 | 0.00042 | 1.00 | |
| PCB118 | ND | 0.0019 | 0.00047 | 1.00 | |
| PCB119 | ND | 0.0019 | 0.00041 | 1.00 | |
| PCB123 | ND | 0.0019 | 0.00073 | 1.00 | |
| PCB126 | ND | 0.0019 | 0.00052 | 1.00 | |
| PCB128 | ND | 0.0019 | 0.00067 | 1.00 | |
| PCB132/153 | ND | 0.0038 | 0.0011 | 1.00 | |
| PCB138/158 | ND | 0.0038 | 0.0011 | 1.00 | |
| PCB149 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB151 | ND | 0.0019 | 0.00058 | 1.00 | |
| PCB156 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB157 | ND | 0.0019 | 0.00072 | 1.00 | |
| PCB167 | ND | 0.0019 | 0.00083 | 1.00 | |
| PCB168 | ND | 0.0019 | 0.00031 | 1.00 | |
| PCB169 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB170 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB177 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB180 | ND | 0.0019 | 0.00068 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 02/25/15
 Work Order: 15-02-1895
 Preparation: EPA 3510C
 Method: EPA 8270C SIM PCB Congeners
 Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|-----------------|-----------------------|-------------------|-----------|-------------------|
| PCB183 | ND | 0.0019 | 0.00051 | 1.00 | |
| PCB187 | ND | 0.0019 | 0.00053 | 1.00 | |
| PCB189 | ND | 0.0019 | 0.00038 | 1.00 | |
| PCB194 | ND | 0.0019 | 0.00040 | 1.00 | |
| PCB195 | ND | 0.0019 | 0.00034 | 1.00 | |
| PCB201 | ND | 0.0019 | 0.00069 | 1.00 | |
| PCB206 | ND | 0.0019 | 0.00024 | 1.00 | |
| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> | | |
| 2-Fluorobiphenyl | 83 | 50-150 | | | |
| p-Terphenyl-d14 | 73 | 50-150 | | | |

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 02/25/15
Work Order: 15-02-1895
Preparation: EPA 3510C
Method: EPA 8270C SIM PCB Congeners
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IB-RW-13-G-S-20150224 | 15-02-1895-4-E | 02/24/15 09:35 | Sea Water | GC/MS HHH | 03/02/15 | 03/06/15 04:23 | 150302L20 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------|--------|--------|---------|------|------------|
| PCB018 | ND | 0.0019 | 0.00040 | 1.00 | |
| PCB028 | ND | 0.0019 | 0.00063 | 1.00 | |
| PCB037 | ND | 0.0019 | 0.00046 | 1.00 | |
| PCB044 | ND | 0.0019 | 0.00074 | 1.00 | |
| PCB049 | ND | 0.0019 | 0.00074 | 1.00 | |
| PCB052 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB066 | ND | 0.0019 | 0.00055 | 1.00 | |
| PCB070 | ND | 0.0019 | 0.00036 | 1.00 | |
| PCB074 | ND | 0.0019 | 0.00041 | 1.00 | |
| PCB077 | ND | 0.0019 | 0.00062 | 1.00 | |
| PCB081 | ND | 0.0019 | 0.00046 | 1.00 | |
| PCB087 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB099 | ND | 0.0019 | 0.00058 | 1.00 | |
| PCB101 | ND | 0.0019 | 0.00055 | 1.00 | |
| PCB105 | ND | 0.0019 | 0.00036 | 1.00 | |
| PCB110 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB114 | ND | 0.0019 | 0.00042 | 1.00 | |
| PCB118 | ND | 0.0019 | 0.00047 | 1.00 | |
| PCB119 | ND | 0.0019 | 0.00041 | 1.00 | |
| PCB123 | ND | 0.0019 | 0.00073 | 1.00 | |
| PCB126 | ND | 0.0019 | 0.00052 | 1.00 | |
| PCB128 | ND | 0.0019 | 0.00067 | 1.00 | |
| PCB132/153 | ND | 0.0038 | 0.0011 | 1.00 | |
| PCB138/158 | ND | 0.0038 | 0.0011 | 1.00 | |
| PCB149 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB151 | ND | 0.0019 | 0.00058 | 1.00 | |
| PCB156 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB157 | ND | 0.0019 | 0.00072 | 1.00 | |
| PCB167 | ND | 0.0019 | 0.00083 | 1.00 | |
| PCB168 | ND | 0.0019 | 0.00031 | 1.00 | |
| PCB169 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB170 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB177 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB180 | ND | 0.0019 | 0.00068 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 02/25/15
 Work Order: 15-02-1895
 Preparation: EPA 3510C
 Method: EPA 8270C SIM PCB Congeners
 Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|-----------------|-----------------------|-------------------|-----------|-------------------|
| PCB183 | ND | 0.0019 | 0.00051 | 1.00 | |
| PCB187 | ND | 0.0019 | 0.00053 | 1.00 | |
| PCB189 | ND | 0.0019 | 0.00038 | 1.00 | |
| PCB194 | ND | 0.0019 | 0.00040 | 1.00 | |
| PCB195 | ND | 0.0019 | 0.00034 | 1.00 | |
| PCB201 | ND | 0.0019 | 0.00069 | 1.00 | |
| PCB206 | ND | 0.0019 | 0.00024 | 1.00 | |
| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> | | |
| 2-Fluorobiphenyl | 72 | 50-150 | | | |
| p-Terphenyl-d14 | 64 | 50-150 | | | |

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

| | | |
|------------------------------|----------------|-----------------------------|
| ANCHOR QEA, LLC | Date Received: | 02/25/15 |
| 27201 Puerta Real, Suite 350 | Work Order: | 15-02-1895 |
| Mission Viejo, CA 92691-8306 | Preparation: | EPA 3510C |
| | Method: | EPA 8270C SIM PCB Congeners |
| | Units: | ug/L |

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IB-RW-14-G-S-20150224 | 15-02-1895-7-E | 02/24/15 10:24 | Sea Water | GC/MS HHH | 03/02/15 | 03/06/15 04:49 | 150302L20 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------|--------|--------|---------|------|------------|
| PCB018 | ND | 0.0019 | 0.00040 | 1.00 | |
| PCB028 | ND | 0.0019 | 0.00063 | 1.00 | |
| PCB037 | ND | 0.0019 | 0.00046 | 1.00 | |
| PCB044 | ND | 0.0019 | 0.00074 | 1.00 | |
| PCB049 | ND | 0.0019 | 0.00074 | 1.00 | |
| PCB052 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB066 | ND | 0.0019 | 0.00055 | 1.00 | |
| PCB070 | ND | 0.0019 | 0.00036 | 1.00 | |
| PCB074 | ND | 0.0019 | 0.00041 | 1.00 | |
| PCB077 | ND | 0.0019 | 0.00062 | 1.00 | |
| PCB081 | ND | 0.0019 | 0.00046 | 1.00 | |
| PCB087 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB099 | ND | 0.0019 | 0.00058 | 1.00 | |
| PCB101 | ND | 0.0019 | 0.00055 | 1.00 | |
| PCB105 | ND | 0.0019 | 0.00036 | 1.00 | |
| PCB110 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB114 | ND | 0.0019 | 0.00042 | 1.00 | |
| PCB118 | ND | 0.0019 | 0.00047 | 1.00 | |
| PCB119 | ND | 0.0019 | 0.00041 | 1.00 | |
| PCB123 | ND | 0.0019 | 0.00073 | 1.00 | |
| PCB126 | ND | 0.0019 | 0.00052 | 1.00 | |
| PCB128 | ND | 0.0019 | 0.00067 | 1.00 | |
| PCB132/153 | ND | 0.0038 | 0.0011 | 1.00 | |
| PCB138/158 | ND | 0.0038 | 0.0011 | 1.00 | |
| PCB149 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB151 | ND | 0.0019 | 0.00058 | 1.00 | |
| PCB156 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB157 | ND | 0.0019 | 0.00072 | 1.00 | |
| PCB167 | ND | 0.0019 | 0.00083 | 1.00 | |
| PCB168 | ND | 0.0019 | 0.00031 | 1.00 | |
| PCB169 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB170 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB177 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB180 | ND | 0.0019 | 0.00068 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 02/25/15
 Work Order: 15-02-1895
 Preparation: EPA 3510C
 Method: EPA 8270C SIM PCB Congeners
 Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|-----------------|-----------------------|-------------------|-----------|-------------------|
| PCB183 | ND | 0.0019 | 0.00051 | 1.00 | |
| PCB187 | ND | 0.0019 | 0.00053 | 1.00 | |
| PCB189 | ND | 0.0019 | 0.00038 | 1.00 | |
| PCB194 | ND | 0.0019 | 0.00040 | 1.00 | |
| PCB195 | ND | 0.0019 | 0.00034 | 1.00 | |
| PCB201 | ND | 0.0019 | 0.00069 | 1.00 | |
| PCB206 | ND | 0.0019 | 0.00024 | 1.00 | |
| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> | | |
| 2-Fluorobiphenyl | 80 | 50-150 | | | |
| p-Terphenyl-d14 | 76 | 50-150 | | | |

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 02/25/15
Work Order: 15-02-1895
Preparation: EPA 3510C
Method: EPA 8270C SIM PCB Congeners
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IB-RW-15-G-S-20150224 | 15-02-1895-10-E | 02/24/15 12:05 | Sea Water | GC/MS HHH | 03/02/15 | 03/10/15 16:27 | 150302L20 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------|--------|--------|---------|------|------------|
| PCB018 | ND | 0.0019 | 0.00040 | 1.00 | |
| PCB028 | ND | 0.0019 | 0.00063 | 1.00 | |
| PCB037 | ND | 0.0019 | 0.00046 | 1.00 | |
| PCB044 | ND | 0.0019 | 0.00074 | 1.00 | |
| PCB049 | ND | 0.0019 | 0.00074 | 1.00 | |
| PCB052 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB066 | ND | 0.0019 | 0.00055 | 1.00 | |
| PCB070 | ND | 0.0019 | 0.00036 | 1.00 | |
| PCB074 | ND | 0.0019 | 0.00041 | 1.00 | |
| PCB077 | ND | 0.0019 | 0.00062 | 1.00 | |
| PCB081 | ND | 0.0019 | 0.00046 | 1.00 | |
| PCB087 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB099 | ND | 0.0019 | 0.00058 | 1.00 | |
| PCB101 | ND | 0.0019 | 0.00055 | 1.00 | |
| PCB105 | ND | 0.0019 | 0.00036 | 1.00 | |
| PCB110 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB114 | ND | 0.0019 | 0.00042 | 1.00 | |
| PCB118 | ND | 0.0019 | 0.00047 | 1.00 | |
| PCB119 | ND | 0.0019 | 0.00041 | 1.00 | |
| PCB123 | ND | 0.0019 | 0.00073 | 1.00 | |
| PCB126 | ND | 0.0019 | 0.00052 | 1.00 | |
| PCB128 | ND | 0.0019 | 0.00067 | 1.00 | |
| PCB132/153 | ND | 0.0038 | 0.0011 | 1.00 | |
| PCB138/158 | ND | 0.0038 | 0.0011 | 1.00 | |
| PCB149 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB151 | ND | 0.0019 | 0.00058 | 1.00 | |
| PCB156 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB157 | ND | 0.0019 | 0.00072 | 1.00 | |
| PCB167 | ND | 0.0019 | 0.00083 | 1.00 | |
| PCB168 | ND | 0.0019 | 0.00031 | 1.00 | |
| PCB169 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB170 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB177 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB180 | ND | 0.0019 | 0.00068 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 02/25/15
 Work Order: 15-02-1895
 Preparation: EPA 3510C
 Method: EPA 8270C SIM PCB Congeners
 Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|-----------------|-----------------------|-------------------|-----------|-------------------|
| PCB183 | ND | 0.0019 | 0.00051 | 1.00 | |
| PCB187 | ND | 0.0019 | 0.00053 | 1.00 | |
| PCB189 | ND | 0.0019 | 0.00038 | 1.00 | |
| PCB194 | ND | 0.0019 | 0.00040 | 1.00 | |
| PCB195 | ND | 0.0019 | 0.00034 | 1.00 | |
| PCB201 | ND | 0.0019 | 0.00069 | 1.00 | |
| PCB206 | ND | 0.0019 | 0.00024 | 1.00 | |
| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> | | |
| 2-Fluorobiphenyl | 72 | 50-150 | | | |
| p-Terphenyl-d14 | 66 | 50-150 | | | |

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 02/25/15
Work Order: 15-02-1895
Preparation: EPA 3510C
Method: EPA 8270C SIM PCB Congeners
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OB-RW-16-G-S-20150224 | 15-02-1895-14-E | 02/24/15 12:45 | Sea Water | GC/MS HHH | 03/02/15 | 03/10/15 17:42 | 150302L20 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------|--------|--------|---------|------|------------|
| PCB018 | ND | 0.0019 | 0.00040 | 1.00 | |
| PCB028 | ND | 0.0019 | 0.00064 | 1.00 | |
| PCB037 | ND | 0.0019 | 0.00046 | 1.00 | |
| PCB044 | ND | 0.0019 | 0.00075 | 1.00 | |
| PCB049 | ND | 0.0019 | 0.00075 | 1.00 | |
| PCB052 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB066 | ND | 0.0019 | 0.00055 | 1.00 | |
| PCB070 | ND | 0.0019 | 0.00037 | 1.00 | |
| PCB074 | ND | 0.0019 | 0.00041 | 1.00 | |
| PCB077 | ND | 0.0019 | 0.00063 | 1.00 | |
| PCB081 | ND | 0.0019 | 0.00047 | 1.00 | |
| PCB087 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB099 | ND | 0.0019 | 0.00058 | 1.00 | |
| PCB101 | ND | 0.0019 | 0.00056 | 1.00 | |
| PCB105 | ND | 0.0019 | 0.00036 | 1.00 | |
| PCB110 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB114 | ND | 0.0019 | 0.00042 | 1.00 | |
| PCB118 | ND | 0.0019 | 0.00047 | 1.00 | |
| PCB119 | ND | 0.0019 | 0.00041 | 1.00 | |
| PCB123 | ND | 0.0019 | 0.00074 | 1.00 | |
| PCB126 | ND | 0.0019 | 0.00052 | 1.00 | |
| PCB128 | ND | 0.0019 | 0.00068 | 1.00 | |
| PCB132/153 | ND | 0.0038 | 0.0011 | 1.00 | |
| PCB138/158 | ND | 0.0038 | 0.0011 | 1.00 | |
| PCB149 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB151 | ND | 0.0019 | 0.00059 | 1.00 | |
| PCB156 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB157 | ND | 0.0019 | 0.00072 | 1.00 | |
| PCB167 | ND | 0.0019 | 0.00083 | 1.00 | |
| PCB168 | ND | 0.0019 | 0.00032 | 1.00 | |
| PCB169 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB170 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB177 | ND | 0.0019 | 0.00055 | 1.00 | |
| PCB180 | ND | 0.0019 | 0.00069 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 02/25/15
 Work Order: 15-02-1895
 Preparation: EPA 3510C
 Method: EPA 8270C SIM PCB Congeners
 Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|-----------------|-----------------------|-------------------|-----------|-------------------|
| PCB183 | ND | 0.0019 | 0.00051 | 1.00 | |
| PCB187 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB189 | ND | 0.0019 | 0.00038 | 1.00 | |
| PCB194 | ND | 0.0019 | 0.00040 | 1.00 | |
| PCB195 | ND | 0.0019 | 0.00034 | 1.00 | |
| PCB201 | ND | 0.0019 | 0.00070 | 1.00 | |
| PCB206 | ND | 0.0019 | 0.00025 | 1.00 | |
| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> | | |
| 2-Fluorobiphenyl | 72 | 50-150 | | | |
| p-Terphenyl-d14 | 66 | 50-150 | | | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 02/25/15
Work Order: 15-02-1895
Preparation: EPA 3510C
Method: EPA 8270C SIM PCB Congeners
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OB-RW-08-G-S-20150224 | 15-02-1895-17-E | 02/24/15 13:05 | Sea Water | GC/MS HHH | 03/02/15 | 03/10/15 18:08 | 150302L20 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------|--------|--------|---------|------|------------|
| PCB018 | ND | 0.0019 | 0.00040 | 1.00 | |
| PCB028 | ND | 0.0019 | 0.00063 | 1.00 | |
| PCB037 | ND | 0.0019 | 0.00046 | 1.00 | |
| PCB044 | ND | 0.0019 | 0.00074 | 1.00 | |
| PCB049 | ND | 0.0019 | 0.00074 | 1.00 | |
| PCB052 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB066 | ND | 0.0019 | 0.00055 | 1.00 | |
| PCB070 | ND | 0.0019 | 0.00036 | 1.00 | |
| PCB074 | ND | 0.0019 | 0.00041 | 1.00 | |
| PCB077 | ND | 0.0019 | 0.00062 | 1.00 | |
| PCB081 | ND | 0.0019 | 0.00046 | 1.00 | |
| PCB087 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB099 | ND | 0.0019 | 0.00058 | 1.00 | |
| PCB101 | ND | 0.0019 | 0.00055 | 1.00 | |
| PCB105 | ND | 0.0019 | 0.00036 | 1.00 | |
| PCB110 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB114 | ND | 0.0019 | 0.00042 | 1.00 | |
| PCB118 | ND | 0.0019 | 0.00047 | 1.00 | |
| PCB119 | ND | 0.0019 | 0.00041 | 1.00 | |
| PCB123 | ND | 0.0019 | 0.00073 | 1.00 | |
| PCB126 | ND | 0.0019 | 0.00052 | 1.00 | |
| PCB128 | ND | 0.0019 | 0.00067 | 1.00 | |
| PCB132/153 | ND | 0.0038 | 0.0011 | 1.00 | |
| PCB138/158 | ND | 0.0038 | 0.0011 | 1.00 | |
| PCB149 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB151 | ND | 0.0019 | 0.00058 | 1.00 | |
| PCB156 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB157 | ND | 0.0019 | 0.00072 | 1.00 | |
| PCB167 | ND | 0.0019 | 0.00083 | 1.00 | |
| PCB168 | ND | 0.0019 | 0.00031 | 1.00 | |
| PCB169 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB170 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB177 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB180 | ND | 0.0019 | 0.00068 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 02/25/15
 Work Order: 15-02-1895
 Preparation: EPA 3510C
 Method: EPA 8270C SIM PCB Congeners
 Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|-----------------|-----------------------|-------------------|-----------|-------------------|
| PCB183 | ND | 0.0019 | 0.00051 | 1.00 | |
| PCB187 | ND | 0.0019 | 0.00053 | 1.00 | |
| PCB189 | ND | 0.0019 | 0.00038 | 1.00 | |
| PCB194 | ND | 0.0019 | 0.00040 | 1.00 | |
| PCB195 | ND | 0.0019 | 0.00034 | 1.00 | |
| PCB201 | ND | 0.0019 | 0.00069 | 1.00 | |
| PCB206 | ND | 0.0019 | 0.00024 | 1.00 | |
| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> | | |
| 2-Fluorobiphenyl | 69 | 50-150 | | | |
| p-Terphenyl-d14 | 65 | 50-150 | | | |

Return to Contents 

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 02/25/15
Work Order: 15-02-1895
Preparation: EPA 3510C
Method: EPA 8270C SIM PCB Congeners
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OB-RW-09-G-S-20150224 | 15-02-1895-21-E | 02/24/15 13:45 | Sea Water | GC/MS HHH | 03/02/15 | 03/10/15 18:34 | 150302L20 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------|--------|--------|---------|------|------------|
| PCB018 | ND | 0.0019 | 0.00040 | 1.00 | |
| PCB028 | ND | 0.0019 | 0.00063 | 1.00 | |
| PCB037 | ND | 0.0019 | 0.00046 | 1.00 | |
| PCB044 | ND | 0.0019 | 0.00074 | 1.00 | |
| PCB049 | ND | 0.0019 | 0.00074 | 1.00 | |
| PCB052 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB066 | ND | 0.0019 | 0.00055 | 1.00 | |
| PCB070 | ND | 0.0019 | 0.00036 | 1.00 | |
| PCB074 | ND | 0.0019 | 0.00041 | 1.00 | |
| PCB077 | ND | 0.0019 | 0.00062 | 1.00 | |
| PCB081 | ND | 0.0019 | 0.00046 | 1.00 | |
| PCB087 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB099 | ND | 0.0019 | 0.00058 | 1.00 | |
| PCB101 | ND | 0.0019 | 0.00055 | 1.00 | |
| PCB105 | ND | 0.0019 | 0.00036 | 1.00 | |
| PCB110 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB114 | ND | 0.0019 | 0.00042 | 1.00 | |
| PCB118 | ND | 0.0019 | 0.00047 | 1.00 | |
| PCB119 | ND | 0.0019 | 0.00041 | 1.00 | |
| PCB123 | ND | 0.0019 | 0.00073 | 1.00 | |
| PCB126 | ND | 0.0019 | 0.00052 | 1.00 | |
| PCB128 | ND | 0.0019 | 0.00067 | 1.00 | |
| PCB132/153 | ND | 0.0038 | 0.0011 | 1.00 | |
| PCB138/158 | ND | 0.0038 | 0.0011 | 1.00 | |
| PCB149 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB151 | ND | 0.0019 | 0.00058 | 1.00 | |
| PCB156 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB157 | ND | 0.0019 | 0.00072 | 1.00 | |
| PCB167 | ND | 0.0019 | 0.00083 | 1.00 | |
| PCB168 | ND | 0.0019 | 0.00031 | 1.00 | |
| PCB169 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB170 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB177 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB180 | ND | 0.0019 | 0.00068 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 02/25/15
 Work Order: 15-02-1895
 Preparation: EPA 3510C
 Method: EPA 8270C SIM PCB Congeners
 Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|-----------------|-----------------------|-------------------|-----------|-------------------|
| PCB183 | ND | 0.0019 | 0.00051 | 1.00 | |
| PCB187 | ND | 0.0019 | 0.00053 | 1.00 | |
| PCB189 | ND | 0.0019 | 0.00038 | 1.00 | |
| PCB194 | ND | 0.0019 | 0.00040 | 1.00 | |
| PCB195 | ND | 0.0019 | 0.00034 | 1.00 | |
| PCB201 | ND | 0.0019 | 0.00069 | 1.00 | |
| PCB206 | ND | 0.0019 | 0.00024 | 1.00 | |
| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> | | |
| 2-Fluorobiphenyl | 68 | 50-150 | | | |
| p-Terphenyl-d14 | 64 | 50-150 | | | |

Return to Contents 

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 02/25/15
Work Order: 15-02-1895
Preparation: EPA 3510C
Method: EPA 8270C SIM PCB Congeners
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| CB-RW-11-G-S-20150224 | 15-02-1895-24-E | 02/24/15 14:23 | Sea Water | GC/MS HHH | 03/02/15 | 03/10/15 19:01 | 150302L20 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------|--------|--------|---------|------|------------|
| PCB018 | ND | 0.0019 | 0.00040 | 1.00 | |
| PCB028 | ND | 0.0019 | 0.00063 | 1.00 | |
| PCB037 | ND | 0.0019 | 0.00046 | 1.00 | |
| PCB044 | ND | 0.0019 | 0.00074 | 1.00 | |
| PCB049 | ND | 0.0019 | 0.00074 | 1.00 | |
| PCB052 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB066 | ND | 0.0019 | 0.00055 | 1.00 | |
| PCB070 | ND | 0.0019 | 0.00036 | 1.00 | |
| PCB074 | ND | 0.0019 | 0.00041 | 1.00 | |
| PCB077 | ND | 0.0019 | 0.00062 | 1.00 | |
| PCB081 | ND | 0.0019 | 0.00046 | 1.00 | |
| PCB087 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB099 | ND | 0.0019 | 0.00058 | 1.00 | |
| PCB101 | ND | 0.0019 | 0.00055 | 1.00 | |
| PCB105 | ND | 0.0019 | 0.00036 | 1.00 | |
| PCB110 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB114 | ND | 0.0019 | 0.00042 | 1.00 | |
| PCB118 | ND | 0.0019 | 0.00047 | 1.00 | |
| PCB119 | ND | 0.0019 | 0.00041 | 1.00 | |
| PCB123 | ND | 0.0019 | 0.00073 | 1.00 | |
| PCB126 | ND | 0.0019 | 0.00052 | 1.00 | |
| PCB128 | ND | 0.0019 | 0.00067 | 1.00 | |
| PCB132/153 | ND | 0.0038 | 0.0011 | 1.00 | |
| PCB138/158 | ND | 0.0038 | 0.0011 | 1.00 | |
| PCB149 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB151 | ND | 0.0019 | 0.00058 | 1.00 | |
| PCB156 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB157 | ND | 0.0019 | 0.00072 | 1.00 | |
| PCB167 | ND | 0.0019 | 0.00083 | 1.00 | |
| PCB168 | ND | 0.0019 | 0.00031 | 1.00 | |
| PCB169 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB170 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB177 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB180 | ND | 0.0019 | 0.00068 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 02/25/15
 Work Order: 15-02-1895
 Preparation: EPA 3510C
 Method: EPA 8270C SIM PCB Congeners
 Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

Page 16 of 18

| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|-----------------|-----------------------|-------------------|-----------|-------------------|
| PCB183 | ND | 0.0019 | 0.00051 | 1.00 | |
| PCB187 | ND | 0.0019 | 0.00053 | 1.00 | |
| PCB189 | ND | 0.0019 | 0.00038 | 1.00 | |
| PCB194 | ND | 0.0019 | 0.00040 | 1.00 | |
| PCB195 | ND | 0.0019 | 0.00034 | 1.00 | |
| PCB201 | ND | 0.0019 | 0.00069 | 1.00 | |
| PCB206 | ND | 0.0019 | 0.00024 | 1.00 | |
| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> | | |
| 2-Fluorobiphenyl | 74 | 50-150 | | | |
| p-Terphenyl-d14 | 68 | 50-150 | | | |



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 02/25/15
Work Order: 15-02-1895
Preparation: EPA 3510C
Method: EPA 8270C SIM PCB Congeners
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|---------|------------|---------------|--------------------|-------------|
| Method Blank | 099-16-414-27 | N/A | Aqueous | GC/MS HHH | 03/02/15 | 03/10/15 16:01 | 150302L20 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------|--------|--------|---------|------|------------|
| PCB018 | ND | 0.0020 | 0.00042 | 1.00 | |
| PCB028 | ND | 0.0020 | 0.00066 | 1.00 | |
| PCB037 | ND | 0.0020 | 0.00048 | 1.00 | |
| PCB044 | ND | 0.0020 | 0.00078 | 1.00 | |
| PCB049 | ND | 0.0020 | 0.00078 | 1.00 | |
| PCB052 | ND | 0.0020 | 0.00051 | 1.00 | |
| PCB066 | ND | 0.0020 | 0.00057 | 1.00 | |
| PCB070 | ND | 0.0020 | 0.00038 | 1.00 | |
| PCB074 | ND | 0.0020 | 0.00043 | 1.00 | |
| PCB077 | ND | 0.0020 | 0.00065 | 1.00 | |
| PCB081 | ND | 0.0020 | 0.00048 | 1.00 | |
| PCB087 | ND | 0.0020 | 0.00050 | 1.00 | |
| PCB099 | ND | 0.0020 | 0.00060 | 1.00 | |
| PCB101 | ND | 0.0020 | 0.00058 | 1.00 | |
| PCB105 | ND | 0.0020 | 0.00038 | 1.00 | |
| PCB110 | ND | 0.0020 | 0.00050 | 1.00 | |
| PCB114 | ND | 0.0020 | 0.00044 | 1.00 | |
| PCB118 | ND | 0.0020 | 0.00049 | 1.00 | |
| PCB119 | ND | 0.0020 | 0.00043 | 1.00 | |
| PCB123 | ND | 0.0020 | 0.00077 | 1.00 | |
| PCB126 | ND | 0.0020 | 0.00055 | 1.00 | |
| PCB128 | ND | 0.0020 | 0.00070 | 1.00 | |
| PCB132/153 | ND | 0.0040 | 0.0012 | 1.00 | |
| PCB138/158 | ND | 0.0040 | 0.0011 | 1.00 | |
| PCB149 | ND | 0.0020 | 0.00050 | 1.00 | |
| PCB151 | ND | 0.0020 | 0.00061 | 1.00 | |
| PCB156 | ND | 0.0020 | 0.00051 | 1.00 | |
| PCB157 | ND | 0.0020 | 0.00075 | 1.00 | |
| PCB167 | ND | 0.0020 | 0.00087 | 1.00 | |
| PCB168 | ND | 0.0020 | 0.00033 | 1.00 | |
| PCB169 | ND | 0.0020 | 0.00056 | 1.00 | |
| PCB170 | ND | 0.0020 | 0.00056 | 1.00 | |
| PCB177 | ND | 0.0020 | 0.00057 | 1.00 | |
| PCB180 | ND | 0.0020 | 0.00072 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 02/25/15
 Work Order: 15-02-1895
 Preparation: EPA 3510C
 Method: EPA 8270C SIM PCB Congeners
 Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|-----------------|-----------------------|-------------------|-----------|-------------------|
| PCB183 | ND | 0.0020 | 0.00053 | 1.00 | |
| PCB187 | ND | 0.0020 | 0.00056 | 1.00 | |
| PCB189 | ND | 0.0020 | 0.00040 | 1.00 | |
| PCB194 | ND | 0.0020 | 0.00042 | 1.00 | |
| PCB195 | ND | 0.0020 | 0.00035 | 1.00 | |
| PCB201 | ND | 0.0020 | 0.00072 | 1.00 | |
| PCB206 | ND | 0.0020 | 0.00026 | 1.00 | |
| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> | | |
| 2-Fluorobiphenyl | 65 | 50-150 | | | |
| p-Terphenyl-d14 | 62 | 50-150 | | | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Quality Control - Spike/Spike Duplicate

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 02/25/15
Work Order: 15-02-1895
Preparation: EPA 1631E Total
Method: EPA 1631E

Project: GWMA - TMDL Compliance Monitoring

Page 1 of 3

| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | MS/MSD Batch Number |
|---------------------------|------------------------|-----------|------------|---------------|----------------|---------------------|
| OB-RW-08-G-S-20150224 | Sample | Sea Water | Hg/AF 1 | 03/09/15 | 03/09/15 00:00 | 150309S01A |
| OB-RW-08-G-S-20150224 | Matrix Spike | Sea Water | Hg/AF 1 | 03/09/15 | 03/09/15 00:00 | 150309S01A |
| OB-RW-08-G-S-20150224 | Matrix Spike Duplicate | Sea Water | Hg/AF 1 | 03/09/15 | 03/09/15 00:00 | 150309S01A |

| Parameter | Sample Conc. | Spike Added | MS Conc. | MS %Rec. | MSD Conc. | MSD %Rec. | %Rec. CL | RPD | RPD CL | Qualifiers |
|-----------|--------------|-------------|----------|----------|-----------|-----------|----------|-----|--------|------------|
| Mercury | 0.004219 | 0.02000 | 0.02122 | 85 | 0.02087 | 83 | 71-125 | 2 | 0-24 | |

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RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - Spike/Spike Duplicate

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 02/25/15
Work Order: 15-02-1895
Preparation: Filtered
Method: EPA 1631E

Project: GWMA - TMDL Compliance Monitoring

Page 2 of 3

| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | MS/MSD Batch Number |
|---------------------------|------------------------|-----------|------------|---------------|----------------|---------------------|
| IB-RW-14-G-S-20150224 | Sample | Sea Water | Hg/AF 1 | 03/09/15 | 03/09/15 00:00 | 150309S01 |
| IB-RW-14-G-S-20150224 | Matrix Spike | Sea Water | Hg/AF 1 | 03/09/15 | 03/09/15 00:00 | 150309S01 |
| IB-RW-14-G-S-20150224 | Matrix Spike Duplicate | Sea Water | Hg/AF 1 | 03/09/15 | 03/09/15 00:00 | 150309S01 |

| Parameter | Sample Conc. | Spike Added | MS Conc. | MS %Rec. | MSD Conc. | MSD %Rec. | %Rec. CL | RPD | RPD CL | Qualifiers |
|-----------|--------------|-------------|----------|----------|-----------|-----------|----------|-----|--------|------------|
| Mercury | 0.001695 | 0.02000 | 0.02051 | 94 | 0.01956 | 89 | 71-125 | 5 | 0-24 | |

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - Spike/Spike Duplicate

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 02/25/15
Work Order: 15-02-1895
Preparation: EPA 3005A Total
Method: EPA 1640

Project: GWMA - TMDL Compliance Monitoring

Page 3 of 3

| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | MS/MSD Batch Number |
|---------------------------|------------------------|-----------|------------|---------------|----------------|---------------------|
| IB-RW-12-G-S-20150224 | Sample | Sea Water | ICP/MS 05 | 03/05/15 | 03/10/15 02:19 | 150305S02 |
| IB-RW-12-G-S-20150224 | Matrix Spike | Sea Water | ICP/MS 05 | 03/05/15 | 03/10/15 00:10 | 150305S02 |
| IB-RW-12-G-S-20150224 | Matrix Spike Duplicate | Sea Water | ICP/MS 05 | 03/05/15 | 03/10/15 00:18 | 150305S02 |

| Parameter | Sample Conc. | Spike Added | MS Conc. | MS %Rec. | MSD Conc. | MSD %Rec. | %Rec. CL | RPD | RPD CL | Qualifiers |
|-----------|--------------|-------------|----------|----------|-----------|-----------|----------|-----|--------|------------|
| Cadmium | 0.06362 | 0.5000 | 0.6126 | 110 | 0.6081 | 109 | 50-150 | 1 | 0-20 | |
| Chromium | ND | 5.000 | 6.187 | 124 | 6.297 | 126 | 50-150 | 2 | 0-20 | |
| Copper | 6.551 | 0.5000 | 7.053 | 4X | 7.062 | 4X | 50-150 | 4X | 0-20 | Q |
| Lead | 0.4238 | 0.5000 | 0.9567 | 107 | 0.9528 | 106 | 50-150 | 0 | 0-20 | |
| Zinc | 14.28 | 5.000 | 20.41 | 122 | 20.24 | 119 | 50-150 | 1 | 0-20 | |

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RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - Sample Duplicate

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 02/25/15
Work Order: 15-02-1895
Preparation: N/A
Method: SM 2540 D

Project: GWMA - TMDL Compliance Monitoring

Page 1 of 2

| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | Duplicate Batch Number |
|---------------------------|------------------|---------|------------|----------------|----------------|------------------------|
| 15-02-1995-1 | Sample | Aqueous | N/A | 03/02/15 00:00 | 03/02/15 22:00 | F0302TSSD5 |
| 15-02-1995-1 | Sample Duplicate | Aqueous | N/A | 03/02/15 00:00 | 03/02/15 22:00 | F0302TSSD5 |

| Parameter | Sample Conc. | DUP Conc. | RPD | RPD CL | Qualifiers |
|-------------------------|--------------|-----------|-----|--------|------------|
| Solids, Total Suspended | 9.400 | 9.200 | 2 | 0-20 | |

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RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - Sample Duplicate

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 02/25/15
Work Order: 15-02-1895
Preparation: N/A
Method: SM 2540 D

Project: GWMA - TMDL Compliance Monitoring

Page 2 of 2

| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | Duplicate Batch Number |
|---------------------------|------------------|-----------|------------|----------------|----------------|------------------------|
| OB-RW-08-G-13-20150224 | Sample | Sea Water | N/A | 03/02/15 00:00 | 03/02/15 17:00 | F0302TSSD6 |
| OB-RW-08-G-13-20150224 | Sample Duplicate | Sea Water | N/A | 03/02/15 00:00 | 03/02/15 17:00 | F0302TSSD6 |

| Parameter | Sample Conc. | DUP Conc. | RPD | RPD CL | Qualifiers |
|-------------------------|--------------|-----------|-----|--------|------------|
| Solids, Total Suspended | ND | ND | N/A | 0-20 | |

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RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - LCS/LCSD

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 02/25/15
Work Order: 15-02-1895
Preparation: N/A
Method: SM 2540 D

Project: GWMA - TMDL Compliance Monitoring

Page 1 of 8

| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | LCS/LCSD Batch Number | | | |
|---------------------------|-------------|-----------|------------|---------------|----------------|-----------------------|-----|--------|------------|
| 099-09-010-7074 | LCS | Aqueous | N/A | 03/02/15 | 03/02/15 22:00 | F0302TSSL5 | | | |
| 099-09-010-7074 | LCSD | Aqueous | N/A | 03/02/15 | 03/02/15 22:00 | F0302TSSL5 | | | |
| Parameter | Spike Added | LCS Conc. | LCS %Rec. | LCSD Conc. | LCSD %Rec. | %Rec. CL | RPD | RPD CL | Qualifiers |
| Solids, Total Suspended | 100.0 | 96.00 | 96 | 88.00 | 88 | 80-120 | 9 | 0-20 | |

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RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - LCS/LCSD

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 02/25/15
 Work Order: 15-02-1895
 Preparation: N/A
 Method: SM 2540 D

Project: GWMA - TMDL Compliance Monitoring

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| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | LCS/LCSD Batch Number |
|---------------------------|------|---------|------------|---------------|----------------|-----------------------|
| 099-09-010-7095 | LCS | Aqueous | N/A | 03/02/15 | 03/02/15 17:00 | F0302TSSL6 |
| 099-09-010-7095 | LCSD | Aqueous | N/A | 03/02/15 | 03/02/15 17:00 | F0302TSSL6 |

| Parameter | Spike Added | LCS Conc. | LCS %Rec. | LCSD Conc. | LCSD %Rec. | %Rec. CL | RPD | RPD CL | Qualifiers |
|-------------------------|-------------|-----------|-----------|------------|------------|----------|-----|--------|------------|
| Solids, Total Suspended | 100.0 | 91.00 | 91 | 90.00 | 90 | 80-120 | 1 | 0-20 | |

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RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - LCS/LCSD

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 02/25/15
 Work Order: 15-02-1895
 Preparation: EPA 1631E Total
 Method: EPA 1631E

Project: GWMA - TMDL Compliance Monitoring

Page 3 of 8

| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | LCS/LCSD Batch Number |
|---------------------------|------|---------|------------|---------------|----------------|-----------------------|
| 099-15-224-77 | LCS | Aqueous | Hg/AF 1 | 03/09/15 | 03/09/15 00:00 | 150309L01 |
| 099-15-224-77 | LCSD | Aqueous | Hg/AF 1 | 03/09/15 | 03/09/15 00:00 | 150309L01 |

| Parameter | Spike Added | LCS Conc. | LCS %Rec. | LCSD Conc. | LCSD %Rec. | %Rec. CL | RPD | RPD CL | Qualifiers |
|-----------|-------------|-----------|-----------|------------|------------|----------|-----|--------|------------|
| Mercury | 0.02000 | 0.02276 | 114 | 0.02046 | 102 | 71-125 | 11 | 0-20 | |

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RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - LCS/LCSD

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 02/25/15
 Work Order: 15-02-1895
 Preparation: Filtered
 Method: EPA 1631E

Project: GWMA - TMDL Compliance Monitoring

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| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | LCS/LCSD Batch Number |
|---------------------------|------|---------|------------|---------------|----------------|-----------------------|
| 099-15-226-59 | LCS | Aqueous | Hg/AF 1 | 03/09/15 | 03/09/15 00:00 | 150309L01F |
| 099-15-226-59 | LCSD | Aqueous | Hg/AF 1 | 03/09/15 | 03/09/15 00:00 | 150309L01F |

| Parameter | Spike Added | LCS Conc. | LCS %Rec. | LCSD Conc. | LCSD %Rec. | %Rec. CL | RPD | RPD CL | Qualifiers |
|-----------|-------------|-----------|-----------|------------|------------|----------|-----|--------|------------|
| Mercury | 0.02000 | 0.02276 | 114 | 0.02046 | 102 | 71-125 | 11 | 0-20 | |

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - LCS/LCSD

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 02/25/15
Work Order: 15-02-1895
Preparation: EPA 3005A Total
Method: EPA 1640

Project: GWMA - TMDL Compliance Monitoring

Page 5 of 8

| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | LCS/LCSD Batch Number | | | |
|---------------------------|-------------|-----------|------------|---------------|----------------|-----------------------|-----|--------|------------|
| 099-13-067-496 | LCS | Aqueous | ICP/MS 05 | 03/05/15 | 03/05/15 19:37 | 150305L02 | | | |
| 099-13-067-496 | LCSD | Aqueous | ICP/MS 05 | 03/05/15 | 03/09/15 17:46 | 150305L02 | | | |
| Parameter | Spike Added | LCS Conc. | LCS %Rec. | LCSD Conc. | LCSD %Rec. | %Rec. CL | RPD | RPD CL | Qualifiers |
| Cadmium | 0.5000 | 0.5231 | 105 | 0.5198 | 104 | 70-130 | 1 | 0-20 | |
| Chromium | 5.000 | 4.981 | 100 | 4.536 | 91 | 70-130 | 9 | 0-20 | |
| Copper | 0.5000 | 0.5282 | 106 | 0.5245 | 105 | 70-130 | 1 | 0-20 | |
| Lead | 0.5000 | 0.5235 | 105 | 0.5180 | 104 | 70-130 | 1 | 0-20 | |
| Zinc | 5.000 | 5.403 | 108 | 5.136 | 103 | 70-130 | 5 | 0-20 | |


 Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - LCS/LCSD

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 02/25/15
Work Order: 15-02-1895
Preparation: EPA 3005A Filt.
Method: EPA 1640

Project: GWMA - TMDL Compliance Monitoring

Page 6 of 8

| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | LCS/LCSD Batch Number | | | |
|---------------------------|-------------|-----------|------------|---------------|----------------|-----------------------|-----|--------|------------|
| 099-15-823-135 | LCS | Aqueous | ICP/MS 05 | 03/05/15 | 03/05/15 19:37 | 150305L02F | | | |
| 099-15-823-135 | LCSD | Aqueous | ICP/MS 05 | 03/05/15 | 03/09/15 17:46 | 150305L02F | | | |
| Parameter | Spike Added | LCS Conc. | LCS %Rec. | LCSD Conc. | LCSD %Rec. | %Rec. CL | RPD | RPD CL | Qualifiers |
| Cadmium | 0.5000 | 0.5231 | 105 | 0.5198 | 104 | 70-130 | 1 | 0-20 | |
| Chromium | 5.000 | 4.981 | 100 | 4.536 | 91 | 70-130 | 9 | 0-20 | |
| Copper | 0.5000 | 0.5282 | 106 | 0.5245 | 105 | 70-130 | 1 | 0-20 | |
| Lead | 0.5000 | 0.5235 | 105 | 0.5180 | 104 | 70-130 | 1 | 0-20 | |
| Zinc | 5.000 | 5.403 | 108 | 5.136 | 103 | 70-130 | 5 | 0-20 | |


 Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - LCS/LCSD

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 02/25/15
Work Order: 15-02-1895
Preparation: EPA 3510C
Method: EPA 8081A

Project: GWMA - TMDL Compliance Monitoring

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| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | LCS/LCSD Batch Number | | | |
|---------------------------|-------------|-----------|------------|---------------|----------------|-----------------------|-----|--------|------------|
| 099-16-036-16 | LCS | Aqueous | GC 44 | 03/02/15 | 03/06/15 17:05 | 150302L18 | | | |
| 099-16-036-16 | LCSD | Aqueous | GC 44 | 03/02/15 | 03/06/15 17:20 | 150302L18 | | | |
| Parameter | Spike Added | LCS Conc. | LCS %Rec. | LCSD Conc. | LCSD %Rec. | %Rec. CL | RPD | RPD CL | Qualifiers |
| 4,4'-DDD | 50.00 | 55.30 | 111 | 59.98 | 120 | 50-150 | 8 | 0-25 | |
| 4,4'-DDE | 50.00 | 47.50 | 95 | 52.45 | 105 | 50-150 | 10 | 0-25 | |
| 4,4'-DDT | 50.00 | 46.33 | 93 | 50.64 | 101 | 50-150 | 9 | 0-25 | |
| Alpha Chlordane | 50.00 | 45.98 | 92 | 51.22 | 102 | 50-150 | 11 | 0-25 | |
| Dieldrin | 50.00 | 48.39 | 97 | 53.52 | 107 | 50-150 | 10 | 0-25 | |
| Gamma Chlordane | 50.00 | 45.38 | 91 | 50.64 | 101 | 50-150 | 11 | 0-25 | |

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - LCS/LCSD

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 02/25/15
Work Order: 15-02-1895
Preparation: EPA 3510C
Method: EPA 8270C SIM PCB Congeners

Project: GWMA - TMDL Compliance Monitoring

Page 8 of 8

| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | LCS/LCSD Batch Number | | | | |
|---------------------------|-------------|-----------|------------|---------------|----------------|-----------------------|--------|-----|--------|------------|
| 099-16-414-27 | LCS | Aqueous | GC/MS HHH | 03/02/15 | 03/10/15 16:53 | 150302L20 | | | | |
| 099-16-414-27 | LCSD | Aqueous | GC/MS HHH | 03/02/15 | 03/10/15 15:35 | 150302L20 | | | | |
| Parameter | Spike Added | LCS Conc. | LCS %Rec. | LCSD Conc. | LCSD %Rec. | %Rec. CL | ME CL | RPD | RPD CL | Qualifiers |
| PCB018 | 0.5000 | 0.3074 | 61 | 0.3052 | 61 | 50-150 | 33-167 | 1 | 0-25 | |
| PCB028 | 0.5000 | 0.3354 | 67 | 0.3351 | 67 | 50-150 | 33-167 | 0 | 0-25 | |
| PCB044 | 0.5000 | 0.3080 | 62 | 0.3053 | 61 | 50-150 | 33-167 | 1 | 0-25 | |
| PCB052 | 0.5000 | 0.2740 | 55 | 0.2755 | 55 | 50-150 | 33-167 | 1 | 0-25 | |
| PCB066 | 0.5000 | 0.3530 | 71 | 0.3519 | 70 | 50-150 | 33-167 | 0 | 0-25 | |
| PCB077 | 0.5000 | 0.3332 | 67 | 0.3322 | 66 | 50-150 | 33-167 | 0 | 0-25 | |
| PCB101 | 0.5000 | 0.2952 | 59 | 0.2929 | 59 | 50-150 | 33-167 | 1 | 0-25 | |
| PCB105 | 0.5000 | 0.3171 | 63 | 0.3134 | 63 | 50-150 | 33-167 | 1 | 0-25 | |
| PCB118 | 0.5000 | 0.3265 | 65 | 0.3245 | 65 | 50-150 | 33-167 | 1 | 0-25 | |
| PCB126 | 0.5000 | 0.3064 | 61 | 0.3054 | 61 | 50-150 | 33-167 | 0 | 0-25 | |
| PCB128 | 0.5000 | 0.2587 | 52 | 0.2596 | 52 | 50-150 | 33-167 | 0 | 0-25 | |
| PCB170 | 0.5000 | 0.2916 | 58 | 0.2888 | 58 | 50-150 | 33-167 | 1 | 0-25 | |
| PCB180 | 0.5000 | 0.2580 | 52 | 0.2585 | 52 | 50-150 | 33-167 | 0 | 0-25 | |
| PCB187 | 0.5000 | 0.2751 | 55 | 0.2719 | 54 | 50-150 | 33-167 | 1 | 0-25 | |
| PCB195 | 0.5000 | 0.3340 | 67 | 0.3308 | 66 | 50-150 | 33-167 | 1 | 0-25 | |
| PCB206 | 0.5000 | 0.3015 | 60 | 0.3020 | 60 | 50-150 | 33-167 | 0 | 0-25 | |

Total number of LCS compounds: 16

Total number of ME compounds: 0

Total number of ME compounds allowed: 1

LCS ME CL validation result: Pass

RPD: Relative Percent Difference. CL: Control Limits

Glossary of Terms and Qualifiers

Work Order: 15-02-1895


Page 1 of 1

| <u>Qualifiers</u> | <u>Definition</u> |
|-------------------|--|
| * | See applicable analysis comment. |
| < | Less than the indicated value. |
| > | Greater than the indicated value. |
| 1 | Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification. |
| 2 | Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification. |
| 3 | Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control. |
| 4 | The MS/MSD RPD was out of control due to suspected matrix interference. |
| 5 | The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference. |
| 6 | Surrogate recovery below the acceptance limit. |
| 7 | Surrogate recovery above the acceptance limit. |
| B | Analyte was present in the associated method blank. |
| BU | Sample analyzed after holding time expired. |
| BV | Sample received after holding time expired. |
| E | Concentration exceeds the calibration range. |
| ET | Sample was extracted past end of recommended max. holding time. |
| HD | The chromatographic pattern was inconsistent with the profile of the reference fuel standard. |
| HDH | The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected). |
| HDL | The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected). |
| J | Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated. |
| JA | Analyte positively identified but quantitation is an estimate. |
| ME | LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean). |
| ND | Parameter not detected at the indicated reporting limit. |
| Q | Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater. |
| SG | The sample extract was subjected to Silica Gel treatment prior to analysis. |
| X | % Recovery and/or RPD out-of-range. |
| Z | Analyte presence was not confirmed by second column or GC/MS analysis. |

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of ≤ 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.


A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.


Chain of Custody Record & Laboratory Analysis Request

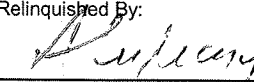
| | | |
|--|---|---|
| Laboratory Number: _____ Date: <u>2.24.15</u> Project Name: GWMA-TMDL Compliance Monitoring Project Number: 141205-01.01 Project Manager: Andy Martin Phone Number: (949) 334-9630 Shipment Method: Courier | Test Parameters <div style="font-size: 2em; font-weight: bold; margin-top: 10px;">15-02-1895</div> |  |
|--|---|---|


| Line | Field Sample ID | Collection Date/Time | Matrix | No. of Containers | Test Parameters | | | | | | | Comments/Preservation | | |
|------|------------------------|----------------------|--------|-------------------|-----------------|----------------------------|-----------------------------|---------------------------|---------------|--|--|-----------------------|--|--|
| | | | | | TSS | Total and dissolved metals | Total and dissolved mercury | Organochlorine pesticides | PCB Congeners | | | | | |
| 1 | IB-RW-12-G-S-20150224 | 2/24/15 0846 | WAT | 8 | X | X | X | X | X | | | | | |
| 2 | IB-RW-12-G-M-20150224 | 0905 | | 1 | X | | | | | | | | | |
| 3 | IB-RW-12-G-B-20150224 | 0909 | | 1 | X | | | | | | | | | |
| 4 | IB-RW-13-G-S-20150224 | 0935 | | 8 | X | X | X | X | X | | | | | |
| 5 | IB-RW-13-G-M-20150224 | 0952 | | 1 | X | | | | | | | | | |
| 6 | IB-RW-13-G-B-20150224 | 0957 | | 1 | X | | | | | | | | | |
| 7 | IB-RW-14-G-S-20150224 | 1024 | | 8 | X | X | X | X | X | | | | | |
| 8 | IB-RW-14-G-M-20150224 | 1033 | | 1 | X | | | | | | | | | |
| 9 | IB-RW-14-G-B-20150224 | 1042 | | 1 | X | | | | | | | | | |
| 10 | IB-RW-15-G-S-20150224 | 1205 | | 8 | X | X | X | X | X | | | | | |
| 11 | IB-RW-15-G-M-20150224 | 1215 | | 1 | X | | | | | | | | | |
| 12 | IB-RW-1015G-M-20150224 | 1216 | | 1 | X | | | | | | | | | |
| 13 | IB-RW-15-G-B-20150224 | 1219 | | 1 | X | | | | | | | | | |
| 14 | IB-RW-16-G-S-20150224 | 1245 | | 8 | X | X | X | X | X | | | | | |
| 15 | IB-RW-16-G-M-20150224 | 1251 | | 1 | X | | | | | | | | | |

Notes:

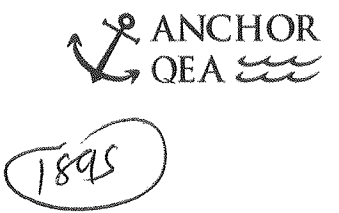
| | |
|--|--------------------------------|
| Relinquished By:  | Company: <u>Anchor OEA</u> |
| Signature/Printed Name | Date/Time: <u>2/25/15 1140</u> |

| | |
|--|--------------------------------|
| Received By:  | Company: <u>SCD</u> |
| Signature/Printed Name | Date/Time: <u>2/25/15 1140</u> |

| | |
|--|--------------------------------|
| Relinquished By:  | Company: <u>ECI</u> |
| Signature/Printed Name | Date/Time: <u>2/25/15 1330</u> |

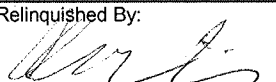
| | |
|--|--------------------------------|
| Received By:  | Company: <u>ECI</u> |
| Signature/Printed Name | Date/Time: <u>2/25/15 1330</u> |


Chain of Custody Record & Laboratory Analysis Request


| | | | |
|--|-------------------|-----------------|---|
| Laboratory Number: Date: <u>2/24/15</u> Project Name: GWMA-TMDL Compliance Monitoring Project Number: 141205-01.01 Project Manager: Andy Martin Phone Number: (949) 334-9630 Shipment Method: Courier | No. of Containers | Test Parameters |  |
|--|-------------------|-----------------|---|


| Line | Field Sample ID | Collection Date/Time | Matrix | No. of Containers | TSS | Total and dissolved metals | Total and dissolved mercury | Organochlorine pesticides | PCB Congeners | | | | | | | | | | | | Comments/Preservation | |
|------|-----------------------|-----------------------|--------|-------------------|-----|----------------------------|-----------------------------|---------------------------|---------------|---|--|--|--|--|--|--|--|--|--|--|-----------------------|--|
| 16 | OB-RW-16-G-B-20150224 | 2/24/15 1254 | WAT | 1 | X | | | | | | | | | | | | | | | | | |
| 17 | 2 | OB-RW-08-G-S-20150224 | | | 8 | X | X | X | X | X | | | | | | | | | | | | |
| 18 | 3 | OB-RW-08-G-M-20150224 | | | 1 | X | | | | | | | | | | | | | | | | |
| 19 | 4 | OB-RW-08-G-B-20150224 | | | 1 | X | | | | | | | | | | | | | | | | |
| 20 | 5 | OB-RW-08-G-B-20150224 | | | 1 | X | | | | | | | | | | | | | | | | |
| 21 | 6 | OB-RW-09-G-S-20150224 | | | 8 | X | X | X | X | X | | | | | | | | | | | | |
| 22 | 7 | OB-RW-09-G-M-20150224 | | | 1 | X | | | | | | | | | | | | | | | | |
| 23 | 8 | OB-RW-09-G-B-20150224 | | | 1 | X | | | | | | | | | | | | | | | | |
| 24 | 9 | OB-RW-01-G-S-20150224 | | | 8 | X | X | X | X | X | | | | | | | | | | | | |
| 25 | 10 | OB-RW-11-G-M-20150224 | | | X | X | | | | | | | | | | | | | | | | |
| 26 | 11 | OB-RW-11-G-B-20150224 | | | 1 | X | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |
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Notes:

| | |
|---|----------------------------|
| Relinquished By: | Company: <u>Anchor OEA</u> |
|  | <u>2/25/15 1400</u> |
| Signature/Printed Name | Date/Time |

| | |
|---|---------------------|
| Received By: | Company: <u>ECC</u> |
|  | <u>2/25/15 1410</u> |
| Signature/Printed Name | Date/Time |

| | |
|---|---------------------|
| Relinquished By: | Company: <u>ECC</u> |
|  | <u>2/25/15 1330</u> |
| Signature/Printed Name | Date/Time |

| | |
|---|---------------------|
| Received By: | Company: <u>ECC</u> |
|  | <u>2/25/15 1330</u> |
| Signature/Printed Name | Date/Time |

Calscience

WORK ORDER #: **15-02-**1895

SAMPLE RECEIPT FORM

Cooler 1 of 5

CLIENT: ANCLAC

DATE: 02/25/15

TEMPERATURE: Thermometer ID: SC4 (Criteria: 0.0 °C – 6.0 °C, not frozen except sediment/tissue)

Temperature 3.0 °C + 0.2 °C (CF) = 3.2 °C Blank Sample

Sample(s) outside temperature criteria (PM/APM contacted by: _____)

Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: Air Filter Checked by: 678

CUSTODY SEALS INTACT:

Cooler _____ No (Not Intact) Not Present N/A Checked by: 678

Sample _____ No (Not Intact) Not Present Checked by: 977

| SAMPLE CONDITION: | Yes | No | N/A |
|---|-------------------------------------|-------------------------------------|-------------------------------------|
| Chain-Of-Custody (COC) document(s) received with samples..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| COC document(s) received complete..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> Collection date/time, matrix, and/or # of containers logged in based on sample labels. | | | |
| <input type="checkbox"/> No analysis requested. <input type="checkbox"/> Not relinquished. <input type="checkbox"/> No date/time relinquished. | | | |
| Sampler's name indicated on COC..... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Sample container label(s) consistent with COC..... | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Sample container(s) intact and good condition..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Proper containers and sufficient volume for analyses requested..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Analyses received within holding time..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Aqueous samples received within 15-minute holding time | | | |
| <input type="checkbox"/> pH <input type="checkbox"/> Residual Chlorine <input type="checkbox"/> Dissolved Sulfides <input type="checkbox"/> Dissolved Oxygen..... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Proper preservation noted on COC or sample container..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> Unpreserved vials received for Volatiles analysis | | | |
| Volatile analysis container(s) free of headspace..... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Tedlar bag(s) free of condensation..... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| CONTAINER TYPE: | | | |
| Solid: <input type="checkbox"/> 4ozCGJ <input type="checkbox"/> 8ozCGJ <input type="checkbox"/> 16ozCGJ <input type="checkbox"/> Sleeve (____) <input type="checkbox"/> EnCores® <input type="checkbox"/> TerraCores® <input type="checkbox"/> _____ | | | |
| Aqueous: <input type="checkbox"/> VOA <input type="checkbox"/> VOA ^h <input type="checkbox"/> VOA ^{na2} <input type="checkbox"/> 125AGB <input type="checkbox"/> 125AGB ^h <input type="checkbox"/> 125AGB ^p <input checked="" type="checkbox"/> 1AGB ³ <input type="checkbox"/> 1AGB ^{na2} <input type="checkbox"/> 1AGBs | | | |
| <input type="checkbox"/> 500AGB <input type="checkbox"/> 500AGJ <input type="checkbox"/> 500AGJs <input type="checkbox"/> 250AGB <input checked="" type="checkbox"/> 250CGB ² <input type="checkbox"/> 250CGBs <input checked="" type="checkbox"/> 1PB <input type="checkbox"/> 1PB ^{na} <input type="checkbox"/> 500PB | | | |
| <input checked="" type="checkbox"/> 250PB ² <input type="checkbox"/> 250PB ⁿ <input type="checkbox"/> 125PB <input type="checkbox"/> 125PB ^z na <input type="checkbox"/> 100PJ <input type="checkbox"/> 100PJ ^{na2} <input type="checkbox"/> _____ <input type="checkbox"/> _____ <input type="checkbox"/> _____ | | | |
| Air: <input type="checkbox"/> Tedlar® <input type="checkbox"/> Canister Other: <input type="checkbox"/> _____ Trip Blank Lot#: _____ Labeled/Checked by: <u>977</u> | | | |
| Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope Reviewed by: <u>876</u> | | | |
| Preservative: h: HCL n: HNO ₃ na ₂ : Na ₂ S ₂ O ₃ na: NaOH p: H ₃ PO ₄ s: H ₂ SO ₄ u: Ultra-pure z ^{na} : ZnAc ₂ +NaOH f: Filtered Scanned by: <u>876</u> | | | |

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Calscience

WORK ORDER #: **15-02-** 1 8 9 5

SAMPLE RECEIPT FORM

Cooler 2 of 5

CLIENT: ANutor

DATE: 02/25/15

TEMPERATURE: Thermometer ID: SC4 (Criteria: 0.0 °C – 6.0 °C, not frozen except sediment/tissue)

Temperature 3.3 °C + 0.2 °C (CF) = 3.5 °C Blank Sample

Sample(s) outside temperature criteria (PM/APM contacted by: _____)

Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: Air Filter

Checked by: 678

CUSTODY SEALS INTACT:

Cooler _____ No (Not Intact) Not Present N/A Checked by: 678

Sample _____ No (Not Intact) Not Present Checked by: 977

SAMPLE CONDITION:

| | Yes | No | N/A |
|---|-------------------------------------|-------------------------------------|-------------------------------------|
| Chain-Of-Custody (COC) document(s) received with samples..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| COC document(s) received complete..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> Collection date/time, matrix, and/or # of containers logged in based on sample labels. <input type="checkbox"/> No analysis requested. <input type="checkbox"/> Not relinquished. <input type="checkbox"/> No date/time relinquished. | | | |
| Sampler's name indicated on COC..... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Sample container label(s) consistent with COC..... | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Sample container(s) intact and good condition..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Proper containers and sufficient volume for analyses requested..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Analyses received within holding time..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Aqueous samples received within 15-minute holding time | | | |
| <input type="checkbox"/> pH <input type="checkbox"/> Residual Chlorine <input type="checkbox"/> Dissolved Sulfides <input type="checkbox"/> Dissolved Oxygen..... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Proper preservation noted on COC or sample container..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> Unpreserved vials received for Volatiles analysis | | | |
| Volatile analysis container(s) free of headspace..... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Tedlar bag(s) free of condensation..... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

CONTAINER TYPE:

Solid: 4ozCGJ 8ozCGJ 16ozCGJ Sleeve (____) EnCores® TerraCores® _____

Aqueous: VOA VOA_h VOA_{na2} 125AGB 125AGB_h 125AGB_p 1AGB 1AGB_{na2} 1AGB_s

500AGB 500AGJ 500AGJ_s 250AGB 250CGB 250CGB_s 1PB 1PB_{na} 500PB

250PB 250PB_n 125PB 125PB_z 100PJ 100PJ_{na2} _____ _____ _____

Air: Tedlar® Canister **Other:** _____ **Trip Blank Lot#:** _____ **Labeled/Checked by:** 977

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope **Reviewed by:** 876

Preservative: h: HCL n: HNO₃ na₂: Na₂S₂O₃ na: NaOH p: H₃PO₄ s: H₂SO₄ u: Ultra-pure z_{na}: ZnAc₂+NaOH f: Filtered **Scanned by:** 876

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Calscience

WORK ORDER #: **15-02-1895**

SAMPLE RECEIPT FORM

Cooler 3 of 5

CLIENT: Anchor

DATE: 02/25/15

TEMPERATURE: Thermometer ID: SC4 (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Temperature 2.6 °C + 0.2°C (CF) = 2.8 °C Blank Sample

Sample(s) outside temperature criteria (PM/APM contacted by: _____)

Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: Air Filter

Checked by: 678

CUSTODY SEALS INTACT:

Cooler _____ No (Not Intact) Not Present N/A Checked by: 678

Sample _____ No (Not Intact) Not Present Checked by: 977

SAMPLE CONDITION:

| | Yes | No | N/A |
|---|-------------------------------------|--------------------------|-------------------------------------|
| Chain-Of-Custody (COC) document(s) received with samples..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| COC document(s) received complete..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> Collection date/time, matrix, and/or # of containers logged in based on sample labels. <input type="checkbox"/> No analysis requested. <input type="checkbox"/> Not relinquished. <input type="checkbox"/> No date/time relinquished. | | | |
| Sampler's name indicated on COC..... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Sample container label(s) consistent with COC..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Sample container(s) intact and good condition..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Proper containers and sufficient volume for analyses requested..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Analyses received within holding time..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Aqueous samples received within 15-minute holding time | | | |
| <input type="checkbox"/> pH <input type="checkbox"/> Residual Chlorine <input type="checkbox"/> Dissolved Sulfides <input type="checkbox"/> Dissolved Oxygen..... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Proper preservation noted on COC or sample container..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> Unpreserved vials received for Volatiles analysis | | | |
| Volatile analysis container(s) free of headspace..... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Tedlar bag(s) free of condensation..... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

CONTAINER TYPE:

Solid: 4ozCGJ 8ozCGJ 16ozCGJ Sleeve (____) EnCores® TerraCores® _____

Aqueous: VOA VOA_h VOA_{na2} 125AGB 125AGB_h 125AGB_p 1AGB 1AGB_{na2} 1AGB_s

500AGB 500AGJ 500AGJ_s 250AGB 250CGB 250CGB_s 1PB 1PB_{na} 500PB

250PB 250PB_n 125PB 125PB_{znna} 100PJ 100PJ_{na2} _____ _____ _____

Air: Tedlar® Canister **Other:** _____ **Trip Blank Lot#:** _____ **Labeled/Checked by:** 977

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope **Reviewed by:** 876

Preservative: h: HCL n: HNO₃ na₂: Na₂S₂O₃ na: NaOH p: H₃PO₄ s: H₂SO₄ u: Ultra-pure znna: ZnAc₂+NaOH f: Filtered **Scanned by:** 876

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Calscience

WORK ORDER #: **15-02-** 1 8 9 5

SAMPLE RECEIPT FORM

Cooler 4 of 5

CLIENT: Anchor

DATE: 02/25/15

TEMPERATURE: Thermometer ID: SC4 (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Temperature 3.3 °C + 0.2°C (CF) = 3.5 °C Blank Sample

Sample(s) outside temperature criteria (PM/APM contacted by: _____)

Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: Air Filter

Checked by: 678

CUSTODY SEALS INTACT:

Cooler _____ No (Not Intact) Not Present N/A

Checked by: 678

Sample _____ No (Not Intact) Not Present

Checked by: 977

SAMPLE CONDITION:

| | Yes | No | N/A |
|---|-------------------------------------|--------------------------|-------------------------------------|
| Chain-Of-Custody (COC) document(s) received with samples..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| COC document(s) received complete..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> Collection date/time, matrix, and/or # of containers logged in based on sample labels. | | | |
| <input type="checkbox"/> No analysis requested. <input type="checkbox"/> Not relinquished. <input type="checkbox"/> No date/time relinquished. | | | |
| Sampler's name indicated on COC..... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Sample container label(s) consistent with COC..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Sample container(s) intact and good condition..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Proper containers and sufficient volume for analyses requested..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Analyses received within holding time..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Aqueous samples received within 15-minute holding time | | | |
| <input type="checkbox"/> pH <input type="checkbox"/> Residual Chlorine <input type="checkbox"/> Dissolved Sulfides <input type="checkbox"/> Dissolved Oxygen..... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Proper preservation noted on COC or sample container..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> Unpreserved vials received for Volatiles analysis | | | |
| Volatile analysis container(s) free of headspace..... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Tedlar bag(s) free of condensation..... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

CONTAINER TYPE:

Solid: 4ozCGJ 8ozCGJ 16ozCGJ Sleeve (____) EnCores® TerraCores® _____

Aqueous: VOA VOA_h VOA_{na2} 125AGB 125AGB_h 125AGB_p 1AGB 1AGB_{na2} 1AGB_s

500AGB 500AGJ 500AGJ_s 250AGB 250CGB 250CGB_s 1PB 1PB_{na} 500PB

250PB 250PB_n 125PB 125PB_z 100PJ 100PJ_{na2} _____ _____ _____

Air: Tedlar® Canister **Other:** _____ **Trip Blank Lot#:** _____ **Labeled/Checked by:** 977

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope **Reviewed by:** 826

Preservative: h: HCL n: HNO₃ na₂:Na₂S₂O₃ na: NaOH p: H₃PO₄ s: H₂SO₄ u: Ultra-pure z_{na}: ZnAc₂+NaOH f: Filtered **Scanned by:** 826

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Calscience

WORK ORDER #: 15-02-1895

SAMPLE RECEIPT FORM

Cooler 5 of 5

CLIENT: Anchor

DATE: 02/25/15

TEMPERATURE: Thermometer ID: SC4 (Criteria: 0.0°C - 6.0°C, not frozen except sediment/tissue)

Temperature 2.9°C + 0.2°C (CF) = 3.1°C [X] Blank [] Sample

[] Sample(s) outside temperature criteria (PM/APM contacted by: _____)

[] Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

[] Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: [] Air [] Filter

Checked by: 678

CUSTODY SEALS INTACT:

[] Cooler [] _____ [] No (Not Intact) [X] Not Present [] N/A

Checked by: 678

[] Sample [] _____ [] No (Not Intact) [X] Not Present

Checked by: 977

SAMPLE CONDITION:

Table with 4 columns: Item, Yes, No, N/A. Rows include Chain-Of-Custody (COC) document(s) received with samples, COC document(s) received complete, Sampler's name indicated on COC, Sample container label(s) consistent with COC, Sample container(s) intact and good condition, Proper containers and sufficient volume for analyses requested, Analyses received within holding time, Aqueous samples received within 15-minute holding time, Proper preservation noted on COC or sample container, Volatile analysis container(s) free of headspace, Tedlar bag(s) free of condensation.

CONTAINER TYPE:

Solid: [] 4ozCGJ [] 8ozCGJ [] 16ozCGJ [] Sleeve (____) [] EnCores® [] TerraCores® [] _____

Aqueous: [] VOA [] VOAh [] VOAna2 [] 125AGB [] 125AGBh [] 125AGBp [X] 1AGB [] 1AGBna2 [] 1AGBs

[] 500AGB [] 500AGJ [] 500AGJs [] 250AGB [X] 250CGB [] 250CGBs [X] 1PB [] 1PBna [] 500PB

[X] 250PB [] 250PBn [] 125PB [] 125PBzanna [] 100PJ [] 100PJna2 [] _____ [] _____ [] _____

Air: [] Tedlar® [] Canister Other: [] _____ Trip Blank Lot#: _____ Labeled/Checked by: 977

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope Reviewed by: 826

Preservative: h: HCL n: HNO3 na2: Na2S2O3 na: NaOH p: H3PO4 s: H2SO4 u: Ultra-pure zanna: ZnAc2+NaOH f: Filtered Scanned by: 826

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WORK ORDER #: 15-02-1 8 9 5

SAMPLE ANOMALY FORM

SAMPLES - CONTAINERS & LABELS:

- Sample(s) NOT RECEIVED but listed on COC
- Sample(s) received but NOT LISTED on COC
- Holding time expired – list sample ID(s) and test
- Insufficient quantities for analysis – list test
- Improper container(s) used – list test
- Improper preservative used – list test
- No preservative noted on COC or label – list test & notify lab
- Sample labels illegible – note test/container type
- Sample label(s) do not match COC – Note in comments
 - Sample ID
 - Date and/or Time Collected
 - Project Information
 - # of Container(s)
 - Analysis
- Sample container(s) compromised – Note in comments
 - Water present in sample container
 - Broken
- Sample container(s) not labeled
- Air sample container(s) compromised – Note in comments
 - Flat
 - Very low in volume
 - Leaking (Not transferred - duplicate bag submitted)
 - Leaking (transferred into Calscience Tedlar® Bag*)
 - Leaking (transferred into Client's Tedlar® Bag*)
- Other: _____

Comments:

Labeled as:

(-17) OA - RW - 08 - G - S - 20150224

(-18) OA - RW - 08 - G - M - 20150224

(-19) OA - RW - 08 - G - B - 20150224

(-21) OA - RW - 09 - G - S - 20150224

(-22) OA - RW - 09 - G - M - 20150224

(-23) OA - RW - 09 - G - B - 20150224

(-24) CB - RW - 11 - G - S - 20150224

(-25) CB - RW - 11 - G - M - 20150224

(-26) CB - RW - 11 - G - B - 20150224

Collection date & time matched

HEADSPACE – Containers with Bubble > 6mm or ¼ inch:

| Sample # | Container ID(s) | # of Vials Received | Sample # | Container ID(s) | # of Vials Received | Sample # | Container ID(s) | # of Cont. received | Analysis |
|----------|-----------------|---------------------|----------|-----------------|---------------------|----------|-----------------|---------------------|----------|
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

Comments: _____

*Transferred at Client's request.

Initial / Date: 977 02 / 25 / 15

Danielle Gonsman

From: Claire Dolphin [cdolphin@anchorqea.com]
Sent: Thursday, February 26, 2015 10:13 AM
To: Danielle Gonsman
Subject: RE: Sample receipt confirmation analyses

Hi Danielle,

I just have terrible handwriting, I'm sorry. Everything labeled "OA" should be "OB"; the COC is correct for your samples # 17, 18, 19, 21, 22, 23. For #24, 25, 26 the labels are correct, they should be "CB".

Thank you,
 Claire

Claire Dolphin

Environmental Scientist

ANCHOR QEA, LLC

cdolphin@anchorqea.com

D 949.334.9615

Please consider the environment before printing this email.

This electronic message transmission contains information that may be confidential and/or privileged work product prepared in anticipation of litigation. The information is intended for the use of the individual or entity named above. If you are not the intended recipient, please be aware that any disclosure, copying distribution or use of the contents of this information is prohibited. If you have received this electronic transmission in error, please notify us by telephone at (206) 287-9130.

From: Danielle Gonsman [<mailto:DanielleGonsman@eurofinsUS.com>]

Sent: Thursday, February 26, 2015 10:07 AM

To: Claire Dolphin

Cc: Andy Martin

Subject: RE: Sample receipt confirmation analyses

Hi Claire,

For the samples we received yesterday, there were some sample ID anomalies. Can you please confirm if the sample label IDs (listed on pg. 8 of the attached) or the COC IDs are correct?

Thanks!

Danielle Gonsman
 Eurofins Calscience, Inc.
 Phone: +1 714 895 5494

From: Claire Dolphin [<mailto:cdolphin@anchorqea.com>]

Sent: Wednesday, February 25, 2015 4:32 PM

To: Danielle Gonsman

Cc: Andy Martin

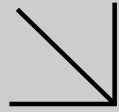
Subject: Sample receipt confirmation analyses

Hi Danielle,

In regards to the anomalies with the samples received yesterday:



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WORK ORDER NUMBER: 15-07-0323

The difference is service



AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: ANCHOR QEA, LLC

Client Project Name: GWMA - TMDL Compliance Monitoring

Attention: Andy Martin
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Approved for release on 07/23/2015 by:
Danielle Gonsman
Project Manager

ResultLink ▶

Email your PM ▶



Eurofins Calscience, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

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Client Project Name: GWMA - TMDL Compliance Monitoring
 Work Order Number: 15-07-0323

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Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 07/07/15. They were assigned to Work Order 15-07-0323.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of ≤ 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.



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Sample Summary

| | |
|------------------------------|---|
| Client: ANCHOR QEA, LLC | Work Order: 15-07-0323 |
| 27201 Puerta Real, Suite 350 | Project Name: GWMA - TMDL Compliance Monitoring |
| Mission Viejo, CA 92691-8306 | PO Number: |
| | Date/Time Received: 07/07/15 17:40 |
| | Number of Containers: 103 |

Attn: Andy Martin

| Sample Identification | Lab Number | Collection Date and Time | Number of Containers | Matrix |
|-------------------------------|---------------|--------------------------|----------------------|-----------|
| IB-RW-12-G-M-20150707 | 15-07-0323-1 | 07/07/15 09:30 | 1 | Sea Water |
| IB-RW-12-G-B-20150707 | 15-07-0323-2 | 07/07/15 09:30 | 1 | Sea Water |
| IB-RW-12-G-S-20150707 | 15-07-0323-3 | 07/07/15 09:30 | 18 | Sea Water |
| IB-RW-13-G-S-20150707 | 15-07-0323-4 | 07/07/15 10:35 | 9 | Sea Water |
| IB-RW-13-G-M-20150707 | 15-07-0323-5 | 07/07/15 10:35 | 1 | Sea Water |
| IB-RW-13-G-B-20150707 | 15-07-0323-6 | 07/07/15 10:35 | 1 | Sea Water |
| IB-RW-14-G-S-20150707 | 15-07-0323-7 | 07/07/15 11:16 | 8 | Sea Water |
| IB-RW-14-G-M-20150707 | 15-07-0323-8 | 07/07/15 11:21 | 1 | Sea Water |
| IB-RW-14-G-B-20150707 | 15-07-0323-9 | 07/07/15 11:21 | 1 | Sea Water |
| OA-RW-09-G-S-20150707 | 15-07-0323-10 | 07/07/15 12:14 | 8 | Sea Water |
| OA-RW-09-G-M-20150707 | 15-07-0323-11 | 07/07/15 12:16 | 1 | Sea Water |
| OA-RW-09-G-B-20150707 | 15-07-0323-12 | 07/07/15 12:18 | 1 | Sea Water |
| CB-RW-11-G-S-20150707 | 15-07-0323-13 | 07/07/15 12:52 | 8 | Sea Water |
| CB-RW-11-G-M-20150707 | 15-07-0323-14 | 07/07/15 12:53 | 1 | Sea Water |
| CB-RW-11-G-B-20150707 | 15-07-0323-15 | 07/07/15 12:53 | 1 | Sea Water |
| CM-RW-10-G-S-20150707 | 15-07-0323-16 | 07/07/15 13:40 | 8 | Sea Water |
| CM-RW-10-G-M-20150707 | 15-07-0323-17 | 07/07/15 13:43 | 1 | Sea Water |
| CM-RW-10-G-B-20150707 | 15-07-0323-18 | 07/07/15 13:44 | 1 | Sea Water |
| OA-RW-08-G-S-20150707 | 15-07-0323-19 | 07/07/15 14:20 | 8 | Sea Water |
| OA-RW-08-G-M-20150707 | 15-07-0323-20 | 07/07/15 14:20 | 1 | Sea Water |
| OA-RW-08-G-B-20150707 | 15-07-0323-21 | 07/07/15 14:20 | 1 | Sea Water |
| OB-RW-16-G-S-20150707 | 15-07-0323-22 | 07/07/15 14:46 | 8 | Sea Water |
| OB-RW-16-G-M-20150707 | 15-07-0323-23 | 07/07/15 14:46 | 2 | Sea Water |
| OB-RW-16-G-B-20150707 | 15-07-0323-24 | 07/07/15 14:46 | 1 | Sea Water |
| IB-RW-15-G-S-20150707 | 15-07-0323-25 | 07/07/15 15:15 | 8 | Sea Water |
| IB-RW-15-G-M-20150707 | 15-07-0323-26 | 07/07/15 15:15 | 1 | Sea Water |
| IB-RW-15-G-B-20150707 | 15-07-0323-27 | 07/07/15 15:15 | 1 | Sea Water |
| IB-RW-13-G-S-20150707-LAB DUP | 15-07-0323-28 | 07/07/15 10:35 | 1 | Sea Water |


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Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 07/07/15
Work Order: 15-07-0323
Preparation: N/A
Method: SM 2540 D
Units: mg/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-------------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------------|
| IB-RW-12-G-M-20150707 | 15-07-0323-1-A | 07/07/15 09:30 | Sea Water | N/A | 07/13/15 | 07/13/15 19:00 | F0713TSSL1 |
| <u>Parameter</u> | | <u>Result</u> | <u>RL</u> | | <u>DF</u> | | <u>Qualifiers</u> |
| Solids, Total Suspended | | 1.2 | 1.0 | | 1.00 | | |
| IB-RW-12-G-B-20150707 | 15-07-0323-2-A | 07/07/15 09:30 | Sea Water | N/A | 07/13/15 | 07/13/15 19:00 | F0713TSSL1 |
| <u>Parameter</u> | | <u>Result</u> | <u>RL</u> | | <u>DF</u> | | <u>Qualifiers</u> |
| Solids, Total Suspended | | 1.6 | 1.0 | | 1.00 | | |
| IB-RW-12-G-S-20150707 | 15-07-0323-3-E | 07/07/15 09:30 | Sea Water | N/A | 07/13/15 | 07/13/15 19:00 | F0713TSSL1 |
| <u>Parameter</u> | | <u>Result</u> | <u>RL</u> | | <u>DF</u> | | <u>Qualifiers</u> |
| Solids, Total Suspended | | ND | 1.0 | | 1.00 | | |
| IB-RW-13-G-S-20150707 | 15-07-0323-4-H | 07/07/15 10:35 | Sea Water | N/A | 07/13/15 | 07/13/15 19:00 | F0713TSSL1 |
| <u>Parameter</u> | | <u>Result</u> | <u>RL</u> | | <u>DF</u> | | <u>Qualifiers</u> |
| Solids, Total Suspended | | ND | 1.0 | | 1.00 | | |
| IB-RW-13-G-M-20150707 | 15-07-0323-5-A | 07/07/15 10:35 | Sea Water | N/A | 07/13/15 | 07/13/15 19:00 | F0713TSSL1 |
| <u>Parameter</u> | | <u>Result</u> | <u>RL</u> | | <u>DF</u> | | <u>Qualifiers</u> |
| Solids, Total Suspended | | 2.4 | 1.0 | | 1.00 | | |
| IB-RW-13-G-B-20150707 | 15-07-0323-6-A | 07/07/15 10:35 | Sea Water | N/A | 07/13/15 | 07/13/15 19:00 | F0713TSSL1 |
| <u>Parameter</u> | | <u>Result</u> | <u>RL</u> | | <u>DF</u> | | <u>Qualifiers</u> |
| Solids, Total Suspended | | 3.7 | 1.0 | | 1.00 | | |
| IB-RW-14-G-S-20150707 | 15-07-0323-7-H | 07/07/15 11:16 | Sea Water | N/A | 07/13/15 | 07/13/15 19:00 | F0713TSSL1 |
| <u>Parameter</u> | | <u>Result</u> | <u>RL</u> | | <u>DF</u> | | <u>Qualifiers</u> |
| Solids, Total Suspended | | ND | 1.0 | | 1.00 | | |
| IB-RW-14-G-M-20150707 | 15-07-0323-8-A | 07/07/15 11:21 | Sea Water | N/A | 07/13/15 | 07/13/15 19:00 | F0713TSSL1 |
| <u>Parameter</u> | | <u>Result</u> | <u>RL</u> | | <u>DF</u> | | <u>Qualifiers</u> |
| Solids, Total Suspended | | ND | 1.0 | | 1.00 | | |

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 07/07/15
Work Order: 15-07-0323
Preparation: N/A
Method: SM 2540 D
Units: mg/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|------------------------------|------------------------|---------------------------|------------------|------------|-----------------|---------------------------|-------------------|
| IB-RW-14-G-B-20150707 | 15-07-0323-9-A | 07/07/15 11:21 | Sea Water | N/A | 07/13/15 | 07/13/15 19:00 | F0713TSSL1 |
| <u>Parameter</u> | | <u>Result</u> | <u>RL</u> | | <u>DF</u> | | <u>Qualifiers</u> |
| Solids, Total Suspended | | ND | 1.0 | | 1.00 | | |
| OA-RW-09-G-S-20150707 | 15-07-0323-10-H | 07/07/15 12:14 | Sea Water | N/A | 07/13/15 | 07/13/15 19:00 | F0713TSSL1 |
| <u>Parameter</u> | | <u>Result</u> | <u>RL</u> | | <u>DF</u> | | <u>Qualifiers</u> |
| Solids, Total Suspended | | ND | 1.0 | | 1.00 | | |
| OA-RW-09-G-M-20150707 | 15-07-0323-11-A | 07/07/15 12:16 | Sea Water | N/A | 07/13/15 | 07/13/15 19:00 | F0713TSSL1 |
| <u>Parameter</u> | | <u>Result</u> | <u>RL</u> | | <u>DF</u> | | <u>Qualifiers</u> |
| Solids, Total Suspended | | 1.0 | 1.0 | | 1.00 | | |
| OA-RW-09-G-B-20150707 | 15-07-0323-12-A | 07/07/15 12:18 | Sea Water | N/A | 07/13/15 | 07/13/15 19:00 | F0713TSSL2 |
| <u>Parameter</u> | | <u>Result</u> | <u>RL</u> | | <u>DF</u> | | <u>Qualifiers</u> |
| Solids, Total Suspended | | 2.1 | 1.0 | | 1.00 | | |
| CB-RW-11-G-S-20150707 | 15-07-0323-13-H | 07/07/15 12:52 | Sea Water | N/A | 07/13/15 | 07/13/15 19:00 | F0713TSSL2 |
| <u>Parameter</u> | | <u>Result</u> | <u>RL</u> | | <u>DF</u> | | <u>Qualifiers</u> |
| Solids, Total Suspended | | 1.1 | 1.0 | | 1.00 | | |
| CB-RW-11-G-M-20150707 | 15-07-0323-14-A | 07/07/15 12:53 | Sea Water | N/A | 07/13/15 | 07/13/15 19:00 | F0713TSSL2 |
| <u>Parameter</u> | | <u>Result</u> | <u>RL</u> | | <u>DF</u> | | <u>Qualifiers</u> |
| Solids, Total Suspended | | ND | 1.0 | | 1.00 | | |
| CB-RW-11-G-B-20150707 | 15-07-0323-15-A | 07/07/15 12:53 | Sea Water | N/A | 07/13/15 | 07/13/15 19:00 | F0713TSSL2 |
| <u>Parameter</u> | | <u>Result</u> | <u>RL</u> | | <u>DF</u> | | <u>Qualifiers</u> |
| Solids, Total Suspended | | 1.7 | 1.0 | | 1.00 | | |
| CM-RW-10-G-S-20150707 | 15-07-0323-16-H | 07/07/15 13:40 | Sea Water | N/A | 07/13/15 | 07/13/15 19:00 | F0713TSSL2 |
| <u>Parameter</u> | | <u>Result</u> | <u>RL</u> | | <u>DF</u> | | <u>Qualifiers</u> |
| Solids, Total Suspended | | ND | 1.0 | | 1.00 | | |

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 07/07/15
Work Order: 15-07-0323
Preparation: N/A
Method: SM 2540 D
Units: mg/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|------------------------------|------------------------|---------------------------|------------------|------------|-----------------|---------------------------|-------------------|
| CM-RW-10-G-M-20150707 | 15-07-0323-17-A | 07/07/15 13:43 | Sea Water | N/A | 07/13/15 | 07/13/15 19:00 | F0713TSSL2 |
| <u>Parameter</u> | | <u>Result</u> | <u>RL</u> | | <u>DF</u> | | <u>Qualifiers</u> |
| Solids, Total Suspended | | 1.4 | 1.0 | | 1.00 | | |
| CM-RW-10-G-B-20150707 | 15-07-0323-18-A | 07/07/15 13:44 | Sea Water | N/A | 07/13/15 | 07/13/15 19:00 | F0713TSSL2 |
| <u>Parameter</u> | | <u>Result</u> | <u>RL</u> | | <u>DF</u> | | <u>Qualifiers</u> |
| Solids, Total Suspended | | 1.2 | 1.0 | | 1.00 | | |
| OA-RW-08-G-S-20150707 | 15-07-0323-19-H | 07/07/15 14:20 | Sea Water | N/A | 07/13/15 | 07/13/15 19:00 | F0713TSSL2 |
| <u>Parameter</u> | | <u>Result</u> | <u>RL</u> | | <u>DF</u> | | <u>Qualifiers</u> |
| Solids, Total Suspended | | 1.0 | 1.0 | | 1.00 | | |
| OA-RW-08-G-M-20150707 | 15-07-0323-20-A | 07/07/15 14:20 | Sea Water | N/A | 07/13/15 | 07/13/15 19:00 | F0713TSSL2 |
| <u>Parameter</u> | | <u>Result</u> | <u>RL</u> | | <u>DF</u> | | <u>Qualifiers</u> |
| Solids, Total Suspended | | 1.4 | 1.0 | | 1.00 | | |
| OA-RW-08-G-B-20150707 | 15-07-0323-21-A | 07/07/15 14:20 | Sea Water | N/A | 07/13/15 | 07/13/15 19:00 | F0713TSSL2 |
| <u>Parameter</u> | | <u>Result</u> | <u>RL</u> | | <u>DF</u> | | <u>Qualifiers</u> |
| Solids, Total Suspended | | 2.0 | 1.0 | | 1.00 | | |
| OB-RW-16-G-S-20150707 | 15-07-0323-22-H | 07/07/15 14:46 | Sea Water | N/A | 07/13/15 | 07/13/15 19:00 | F0713TSSL2 |
| <u>Parameter</u> | | <u>Result</u> | <u>RL</u> | | <u>DF</u> | | <u>Qualifiers</u> |
| Solids, Total Suspended | | ND | 1.0 | | 1.00 | | |
| OB-RW-16-G-M-20150707 | 15-07-0323-23-A | 07/07/15 14:46 | Sea Water | N/A | 07/13/15 | 07/13/15 19:00 | F0713TSSL2 |
| <u>Parameter</u> | | <u>Result</u> | <u>RL</u> | | <u>DF</u> | | <u>Qualifiers</u> |
| Solids, Total Suspended | | ND | 1.0 | | 1.00 | | |
| OB-RW-16-G-B-20150707 | 15-07-0323-24-A | 07/07/15 14:46 | Sea Water | N/A | 07/13/15 | 07/13/15 19:00 | F0713TSSL2 |
| <u>Parameter</u> | | <u>Result</u> | <u>RL</u> | | <u>DF</u> | | <u>Qualifiers</u> |
| Solids, Total Suspended | | 7.6 | 1.0 | | 1.00 | | |

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 07/07/15
Work Order: 15-07-0323
Preparation: N/A
Method: SM 2540 D
Units: mg/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|--------------------------------------|------------------------|---------------------------|------------------|------------|-----------------|---------------------------|-------------------|
| IB-RW-15-G-S-20150707 | 15-07-0323-25-H | 07/07/15 15:15 | Sea Water | N/A | 07/13/15 | 07/13/15 19:00 | F0713TSSL2 |
| <u>Parameter</u> | | <u>Result</u> | <u>RL</u> | | <u>DF</u> | | <u>Qualifiers</u> |
| Solids, Total Suspended | | ND | 1.0 | | 1.00 | | |
| IB-RW-15-G-M-20150707 | 15-07-0323-26-A | 07/07/15 15:15 | Sea Water | N/A | 07/13/15 | 07/13/15 19:00 | F0713TSSL2 |
| <u>Parameter</u> | | <u>Result</u> | <u>RL</u> | | <u>DF</u> | | <u>Qualifiers</u> |
| Solids, Total Suspended | | 1.8 | 1.0 | | 1.00 | | |
| IB-RW-15-G-B-20150707 | 15-07-0323-27-A | 07/07/15 15:15 | Sea Water | N/A | 07/13/15 | 07/13/15 19:00 | F0713TSSL2 |
| <u>Parameter</u> | | <u>Result</u> | <u>RL</u> | | <u>DF</u> | | <u>Qualifiers</u> |
| Solids, Total Suspended | | 1.4 | 1.0 | | 1.00 | | |
| IB-RW-13-G-S-20150707-LAB DUP | 15-07-0323-28-I | 07/07/15 10:35 | Sea Water | N/A | 07/13/15 | 07/13/15 19:00 | F0713TSSL2 |
| <u>Parameter</u> | | <u>Result</u> | <u>RL</u> | | <u>DF</u> | | <u>Qualifiers</u> |
| Solids, Total Suspended | | ND | 1.0 | | 1.00 | | |
| Method Blank | 099-09-010-7228 | N/A | Aqueous | N/A | 07/13/15 | 07/13/15 19:00 | F0713TSSL1 |
| <u>Parameter</u> | | <u>Result</u> | <u>RL</u> | | <u>DF</u> | | <u>Qualifiers</u> |
| Solids, Total Suspended | | ND | 1.0 | | 1.00 | | |
| Method Blank | 099-09-010-7242 | N/A | Aqueous | N/A | 07/13/15 | 07/13/15 19:00 | F0713TSSL2 |
| <u>Parameter</u> | | <u>Result</u> | <u>RL</u> | | <u>DF</u> | | <u>Qualifiers</u> |
| Solids, Total Suspended | | ND | 1.0 | | 1.00 | | |

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 07/07/15
Work Order: 15-07-0323
Preparation: EPA 1631E Total
Method: EPA 1631E
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

Page 1 of 2

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IB-RW-12-G-S-20150707 | 15-07-0323-3-C | 07/07/15 09:30 | Sea Water | Hg/AF 1 | 07/16/15 | 07/16/15 00:00 | 150716L03 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|----------|----------|------|------------|
| Mercury | ND | 0.000500 | 0.000113 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IB-RW-13-G-S-20150707 | 15-07-0323-4-A | 07/07/15 10:35 | Sea Water | Hg/AF 1 | 07/16/15 | 07/16/15 00:00 | 150716L03 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|----------|----------|----------|------|------------|
| Mercury | 0.000591 | 0.000500 | 0.000113 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IB-RW-14-G-S-20150707 | 15-07-0323-7-A | 07/07/15 11:16 | Sea Water | Hg/AF 1 | 07/16/15 | 07/16/15 00:00 | 150716L03 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|----------|----------|----------|------|------------|
| Mercury | 0.000311 | 0.000500 | 0.000113 | 1.00 | J |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OA-RW-09-G-S-20150707 | 15-07-0323-10-A | 07/07/15 12:14 | Sea Water | Hg/AF 1 | 07/16/15 | 07/16/15 00:00 | 150716L03 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|----------|----------|----------|------|------------|
| Mercury | 0.000663 | 0.000500 | 0.000113 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| CB-RW-11-G-S-20150707 | 15-07-0323-13-A | 07/07/15 12:52 | Sea Water | Hg/AF 1 | 07/16/15 | 07/16/15 00:00 | 150716L03 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|----------|----------|----------|------|------------|
| Mercury | 0.000807 | 0.000500 | 0.000113 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| CM-RW-10-G-S-20150707 | 15-07-0323-16-A | 07/07/15 13:40 | Sea Water | Hg/AF 1 | 07/16/15 | 07/16/15 00:00 | 150716L03 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|----------|----------|----------|------|------------|
| Mercury | 0.000508 | 0.000500 | 0.000113 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 07/07/15
Work Order: 15-07-0323
Preparation: EPA 1631E Total
Method: EPA 1631E
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

Page 2 of 2

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OA-RW-08-G-S-20150707 | 15-07-0323-19-A | 07/07/15 14:20 | Sea Water | Hg/AF 1 | 07/16/15 | 07/16/15 00:00 | 150716L03 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|----------|----------|----------|------|------------|
| Mercury | 0.000706 | 0.000500 | 0.000113 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OB-RW-16-G-S-20150707 | 15-07-0323-22-A | 07/07/15 14:46 | Sea Water | Hg/AF 1 | 07/16/15 | 07/16/15 00:00 | 150716L03 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|----------|----------|------|------------|
| Mercury | ND | 0.000500 | 0.000113 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IB-RW-15-G-S-20150707 | 15-07-0323-25-A | 07/07/15 15:15 | Sea Water | Hg/AF 1 | 07/16/15 | 07/16/15 00:00 | 150716L03 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|----------|----------|----------|------|------------|
| Mercury | 0.000403 | 0.000500 | 0.000113 | 1.00 | J |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|---------|------------|---------------|--------------------|-------------|
| Method Blank | 099-15-224-95 | N/A | Aqueous | Hg/AF 1 | 07/16/15 | 07/16/15 00:00 | 150716L03 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|----------|----------|------|------------|
| Mercury | ND | 0.000500 | 0.000113 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 07/07/15
Work Order: 15-07-0323
Preparation: Filtered
Method: EPA 1631E
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IB-RW-12-G-S-20150707 | 15-07-0323-3-R | 07/07/15 09:30 | Sea Water | Hg/AF 1 | 07/16/15 | 07/16/15 00:00 | 150716L03F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|----------|----------|------|------------|
| Mercury | ND | 0.000500 | 0.000113 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IB-RW-13-G-S-20150707 | 15-07-0323-4-B | 07/07/15 10:35 | Sea Water | Hg/AF 1 | 07/16/15 | 07/16/15 00:00 | 150716L03F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|----------|----------|----------|------|------------|
| Mercury | 0.000399 | 0.000500 | 0.000113 | 1.00 | J |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IB-RW-14-G-S-20150707 | 15-07-0323-7-B | 07/07/15 11:36 | Sea Water | Hg/AF 1 | 07/16/15 | 07/16/15 00:00 | 150716L03F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|----------|----------|------|------------|
| Mercury | ND | 0.000500 | 0.000113 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OA-RW-09-G-S-20150707 | 15-07-0323-10-B | 07/07/15 12:14 | Sea Water | Hg/AF 1 | 07/16/15 | 07/16/15 00:00 | 150716L03F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|----------|----------|----------|------|------------|
| Mercury | 0.000143 | 0.000500 | 0.000113 | 1.00 | J |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| CB-RW-11-G-S-20150707 | 15-07-0323-13-B | 07/07/15 12:52 | Sea Water | Hg/AF 1 | 07/16/15 | 07/16/15 00:00 | 150716L03F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|----------|----------|------|------------|
| Mercury | ND | 0.000500 | 0.000113 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| CM-RW-10-G-S-20150707 | 15-07-0323-16-B | 07/07/15 13:40 | Sea Water | Hg/AF 1 | 07/16/15 | 07/16/15 00:00 | 150716L03F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|----------|----------|----------|------|------------|
| Mercury | 0.000644 | 0.000500 | 0.000113 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 07/07/15
Work Order: 15-07-0323
Preparation: Filtered
Method: EPA 1631E
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OA-RW-08-G-S-20150707 | 15-07-0323-19-B | 07/07/15 14:20 | Sea Water | Hg/AF 1 | 07/16/15 | 07/16/15 00:00 | 150716L03F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|----------|----------|------|------------|
| Mercury | ND | 0.000500 | 0.000113 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OB-RW-16-G-S-20150707 | 15-07-0323-22-B | 07/07/15 14:46 | Sea Water | Hg/AF 1 | 07/16/15 | 07/16/15 00:00 | 150716L03F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|----------|----------|----------|------|------------|
| Mercury | 0.000253 | 0.000500 | 0.000113 | 1.00 | J |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IB-RW-15-G-S-20150707 | 15-07-0323-25-B | 07/07/15 15:15 | Sea Water | Hg/AF 1 | 07/16/15 | 07/16/15 00:00 | 150716L03F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|----------|----------|----------|------|------------|
| Mercury | 0.000520 | 0.000500 | 0.000113 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|---------|------------|---------------|--------------------|-------------|
| Method Blank | 099-15-226-68 | N/A | Aqueous | Hg/AF 1 | 07/16/15 | 07/16/15 00:00 | 150716L03F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|----------|----------|------|------------|
| Mercury | ND | 0.000500 | 0.000113 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 07/07/15
Work Order: 15-07-0323
Preparation: EPA 3005A Total
Method: EPA 1640
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IB-RW-12-G-S-20150707 | 15-07-0323-3-E | 07/07/15 09:30 | Sea Water | ICP/MS 05 | 07/14/15 | 07/14/15 20:23 | 150714L02 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0299 | 0.0300 | 0.00567 | 1.00 | J |
| Chromium | 0.605 | 0.500 | 0.164 | 1.00 | |
| Copper | 2.37 | 0.0300 | 0.00898 | 1.00 | |
| Lead | 0.255 | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 17.8 | 0.500 | 0.0736 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IB-RW-13-G-S-20150707 | 15-07-0323-4-C | 07/07/15 10:35 | Sea Water | ICP/MS 05 | 07/14/15 | 07/14/15 22:39 | 150714L02 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0214 | 0.0300 | 0.00567 | 1.00 | J |
| Chromium | 0.510 | 0.500 | 0.164 | 1.00 | |
| Copper | 1.20 | 0.0300 | 0.00898 | 1.00 | |
| Lead | 0.0776 | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 3.97 | 0.500 | 0.0736 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IB-RW-14-G-S-20150707 | 15-07-0323-7-C | 07/07/15 11:16 | Sea Water | ICP/MS 05 | 07/14/15 | 07/14/15 22:47 | 150714L02 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0204 | 0.0300 | 0.00567 | 1.00 | J |
| Chromium | 0.530 | 0.500 | 0.164 | 1.00 | |
| Copper | 1.10 | 0.0300 | 0.00898 | 1.00 | |
| Lead | 0.0726 | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 2.93 | 0.500 | 0.0736 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 07/07/15
Work Order: 15-07-0323
Preparation: EPA 3005A Total
Method: EPA 1640
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OA-RW-09-G-S-20150707 | 15-07-0323-10-C | 07/07/15 12:14 | Sea Water | ICP/MS 05 | 07/14/15 | 07/14/15 23:27 | 150714L02 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0228 | 0.0300 | 0.00567 | 1.00 | J |
| Chromium | 0.557 | 0.500 | 0.164 | 1.00 | |
| Copper | 1.27 | 0.0300 | 0.00898 | 1.00 | |
| Lead | 0.124 | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 3.17 | 0.500 | 0.0736 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| CB-RW-11-G-S-20150707 | 15-07-0323-13-C | 07/07/15 12:52 | Sea Water | ICP/MS 05 | 07/14/15 | 07/16/15 13:53 | 150714L02 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0255 | 0.0300 | 0.00567 | 1.00 | J |
| Chromium | 0.490 | 0.500 | 0.164 | 1.00 | J |
| Copper | 2.21 | 0.0300 | 0.00898 | 1.00 | |
| Lead | 0.124 | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 5.95 | 0.500 | 0.0736 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| CM-RW-10-G-S-20150707 | 15-07-0323-16-C | 07/07/15 13:40 | Sea Water | ICP/MS 05 | 07/14/15 | 07/16/15 14:01 | 150714L02 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0378 | 0.0300 | 0.00567 | 1.00 | |
| Chromium | 0.536 | 0.500 | 0.164 | 1.00 | |
| Copper | 12.1 | 0.0300 | 0.00898 | 1.00 | |
| Lead | 0.0472 | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 32.4 | 0.500 | 0.0736 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 07/07/15
Work Order: 15-07-0323
Preparation: EPA 3005A Total
Method: EPA 1640
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OA-RW-08-G-S-20150707 | 15-07-0323-19-C | 07/07/15 14:20 | Sea Water | ICP/MS 05 | 07/14/15 | 07/16/15 14:08 | 150714L02 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0149 | 0.0300 | 0.00567 | 1.00 | J |
| Chromium | 0.489 | 0.500 | 0.164 | 1.00 | J |
| Copper | 0.821 | 0.0300 | 0.00898 | 1.00 | |
| Lead | 0.180 | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 1.94 | 0.500 | 0.0736 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OB-RW-16-G-S-20150707 | 15-07-0323-22-C | 07/07/15 14:46 | Sea Water | ICP/MS 05 | 07/14/15 | 07/16/15 14:16 | 150714L02 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0150 | 0.0300 | 0.00567 | 1.00 | J |
| Chromium | 0.344 | 0.500 | 0.164 | 1.00 | J |
| Copper | 0.569 | 0.0300 | 0.00898 | 1.00 | |
| Lead | 0.0368 | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 1.15 | 0.500 | 0.0736 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IB-RW-15-G-S-20150707 | 15-07-0323-25-C | 07/07/15 15:15 | Sea Water | ICP/MS 05 | 07/14/15 | 07/16/15 14:24 | 150714L02 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0149 | 0.0300 | 0.00567 | 1.00 | J |
| Chromium | 0.356 | 0.500 | 0.164 | 1.00 | J |
| Copper | 0.948 | 0.0300 | 0.00898 | 1.00 | |
| Lead | 0.0603 | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 1.97 | 0.500 | 0.0736 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 07/07/15
 Work Order: 15-07-0323
 Preparation: EPA 3005A Total
 Method: EPA 1640
 Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-----------------------|---------------------|----------------|------------------|-----------------|-----------------------|------------------|
| Method Blank | 099-13-067-528 | N/A | Aqueous | ICP/MS 05 | 07/14/15 | 07/14/15 17:12 | 150714L02 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|---------------|-----------|------------|-----------|-------------------|
| Cadmium | ND | 0.0300 | 0.00567 | 1.00 | |
| Chromium | ND | 0.500 | 0.164 | 1.00 | |
| Copper | ND | 0.0300 | 0.00898 | 1.00 | |
| Lead | ND | 0.0300 | 0.0135 | 1.00 | |
| Zinc | ND | 0.500 | 0.0736 | 1.00 | |

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 07/07/15
Work Order: 15-07-0323
Preparation: EPA 3005A Filt.
Method: EPA 1640
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

Page 1 of 4

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IB-RW-12-G-S-20150707 | 15-07-0323-3-F | 07/07/15 09:30 | Sea Water | ICP/MS 05 | 07/14/15 | 07/14/15 20:55 | 150714L02F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0211 | 0.0300 | 0.00567 | 1.00 | J |
| Chromium | 0.417 | 0.500 | 0.164 | 1.00 | J |
| Lead | 0.0474 | 0.0300 | 0.0135 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IB-RW-12-G-S-20150707 | 15-07-0323-3-F | 07/07/15 09:30 | Sea Water | ICP/MS 05 | 07/14/15 | 07/20/15 22:30 | 150714L02F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Copper | 1.46 | 0.0300 | 0.00898 | 1.00 | |
| Zinc | 10.0 | 0.500 | 0.0736 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IB-RW-13-G-S-20150707 | 15-07-0323-4-D | 07/07/15 10:35 | Sea Water | ICP/MS 05 | 07/14/15 | 07/14/15 21:03 | 150714L02F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0177 | 0.0300 | 0.00567 | 1.00 | J |
| Chromium | 0.439 | 0.500 | 0.164 | 1.00 | J |
| Lead | 0.0278 | 0.0300 | 0.0135 | 1.00 | J |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IB-RW-13-G-S-20150707 | 15-07-0323-4-D | 07/07/15 10:35 | Sea Water | ICP/MS 05 | 07/14/15 | 07/20/15 23:10 | 150714L02F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Copper | 0.629 | 0.0300 | 0.00898 | 1.00 | |
| Zinc | 0.768 | 0.500 | 0.0736 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IB-RW-14-G-S-20150707 | 15-07-0323-7-D | 07/07/15 11:16 | Sea Water | ICP/MS 05 | 07/14/15 | 07/14/15 21:43 | 150714L02F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0178 | 0.0300 | 0.00567 | 1.00 | J |
| Chromium | 0.429 | 0.500 | 0.164 | 1.00 | J |
| Lead | 0.0185 | 0.0300 | 0.0135 | 1.00 | J |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 07/07/15
Work Order: 15-07-0323
Preparation: EPA 3005A Filt.
Method: EPA 1640
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IB-RW-14-G-S-20150707 | 15-07-0323-7-D | 07/07/15 11:16 | Sea Water | ICP/MS 05 | 07/14/15 | 07/20/15 23:18 | 150714L02F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Copper | 0.732 | 0.0300 | 0.00898 | 1.00 | |
| Zinc | 2.21 | 0.500 | 0.0736 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OA-RW-09-G-S-20150707 | 15-07-0323-10-D | 07/07/15 12:14 | Sea Water | ICP/MS 05 | 07/14/15 | 07/14/15 21:51 | 150714L02F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0193 | 0.0300 | 0.00567 | 1.00 | J |
| Chromium | 0.437 | 0.500 | 0.164 | 1.00 | J |
| Lead | ND | 0.0300 | 0.0135 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OA-RW-09-G-S-20150707 | 15-07-0323-10-D | 07/07/15 12:14 | Sea Water | ICP/MS 05 | 07/14/15 | 07/20/15 23:26 | 150714L02F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Copper | 0.708 | 0.0300 | 0.00898 | 1.00 | |
| Zinc | 2.39 | 0.500 | 0.0736 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| CB-RW-11-G-S-20150707 | 15-07-0323-13-D | 07/07/15 12:52 | Sea Water | ICP/MS 05 | 07/14/15 | 07/14/15 21:59 | 150714L02F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0204 | 0.0300 | 0.00567 | 1.00 | J |
| Chromium | 0.457 | 0.500 | 0.164 | 1.00 | J |
| Lead | 0.0284 | 0.0300 | 0.0135 | 1.00 | J |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| CB-RW-11-G-S-20150707 | 15-07-0323-13-D | 07/07/15 12:52 | Sea Water | ICP/MS 05 | 07/14/15 | 07/20/15 23:34 | 150714L02F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Copper | 1.22 | 0.0300 | 0.00898 | 1.00 | |
| Zinc | 3.69 | 0.500 | 0.0736 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 07/07/15
Work Order: 15-07-0323
Preparation: EPA 3005A Filt.
Method: EPA 1640
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| CM-RW-10-G-S-20150707 | 15-07-0323-16-D | 07/07/15 13:40 | Sea Water | ICP/MS 05 | 07/14/15 | 07/14/15 22:07 | 150714L02F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0445 | 0.0300 | 0.00567 | 1.00 | |
| Chromium | 0.452 | 0.500 | 0.164 | 1.00 | J |
| Lead | 0.0310 | 0.0300 | 0.0135 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| CM-RW-10-G-S-20150707 | 15-07-0323-16-D | 07/07/15 13:40 | Sea Water | ICP/MS 05 | 07/14/15 | 07/20/15 23:42 | 150714L02F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Copper | 8.65 | 0.0300 | 0.00898 | 1.00 | |
| Zinc | 20.7 | 0.500 | 0.0736 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OA-RW-08-G-S-20150707 | 15-07-0323-19-D | 07/07/15 14:20 | Sea Water | ICP/MS 05 | 07/14/15 | 07/14/15 22:15 | 150714L02F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0186 | 0.0300 | 0.00567 | 1.00 | J |
| Chromium | 0.450 | 0.500 | 0.164 | 1.00 | J |
| Lead | 0.0184 | 0.0300 | 0.0135 | 1.00 | J |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OA-RW-08-G-S-20150707 | 15-07-0323-19-D | 07/07/15 14:20 | Sea Water | ICP/MS 05 | 07/14/15 | 07/20/15 23:50 | 150714L02F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Copper | 0.0756 | 0.0300 | 0.00898 | 1.00 | |
| Zinc | 0.270 | 0.500 | 0.0736 | 1.00 | J |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OB-RW-16-G-S-20150707 | 15-07-0323-22-D | 07/07/15 14:46 | Sea Water | ICP/MS 05 | 07/14/15 | 07/14/15 22:23 | 150714L02F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0175 | 0.0300 | 0.00567 | 1.00 | J |
| Chromium | 0.444 | 0.500 | 0.164 | 1.00 | J |
| Lead | 0.0150 | 0.0300 | 0.0135 | 1.00 | J |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 07/07/15
Work Order: 15-07-0323
Preparation: EPA 3005A Filt.
Method: EPA 1640
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OB-RW-16-G-S-20150707 | 15-07-0323-22-D | 07/07/15 14:46 | Sea Water | ICP/MS 05 | 07/14/15 | 07/20/15 23:58 | 150714L02F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Copper | 0.0781 | 0.0300 | 0.00898 | 1.00 | |
| Zinc | 0.260 | 0.500 | 0.0736 | 1.00 | J |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IB-RW-15-G-S-20150707 | 15-07-0323-25-D | 07/07/15 15:15 | Sea Water | ICP/MS 05 | 07/14/15 | 07/14/15 22:31 | 150714L02F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0190 | 0.0300 | 0.00567 | 1.00 | J |
| Chromium | 0.475 | 0.500 | 0.164 | 1.00 | J |
| Lead | 0.0188 | 0.0300 | 0.0135 | 1.00 | J |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IB-RW-15-G-S-20150707 | 15-07-0323-25-D | 07/07/15 15:15 | Sea Water | ICP/MS 05 | 07/14/15 | 07/21/15 00:06 | 150714L02F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Copper | 0.658 | 0.0300 | 0.00898 | 1.00 | |
| Zinc | 1.58 | 0.500 | 0.0736 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|---------|------------|---------------|--------------------|-------------|
| Method Blank | 099-15-823-162 | N/A | Aqueous | ICP/MS 05 | 07/14/15 | 07/14/15 17:12 | 150714L02F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | ND | 0.0300 | 0.00567 | 1.00 | |
| Chromium | ND | 0.500 | 0.164 | 1.00 | |
| Copper | ND | 0.0300 | 0.00898 | 1.00 | |
| Lead | ND | 0.0300 | 0.0135 | 1.00 | |
| Zinc | ND | 0.500 | 0.0736 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 07/07/15
Work Order: 15-07-0323
Preparation: EPA 3510C
Method: EPA 8081A
Units: ng/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IB-RW-12-G-S-20150707 | 15-07-0323-3-U | 07/07/15 09:30 | Sea Water | GC 44 | 07/13/15 | 07/14/15 13:09 | 150713L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------------------------|----------|----------------|------------|------|------------|
| 2,4'-DDD | ND | 2.0 | 0.58 | 1.00 | |
| 2,4'-DDE | ND | 2.0 | 0.49 | 1.00 | |
| 2,4'-DDT | ND | 2.0 | 0.69 | 1.00 | |
| 4,4'-DDD | ND | 2.0 | 0.55 | 1.00 | |
| 4,4'-DDE | ND | 2.0 | 0.48 | 1.00 | |
| 4,4'-DDT | ND | 2.0 | 0.55 | 1.00 | |
| Alpha Chlordane | ND | 2.0 | 0.49 | 1.00 | |
| Cis-nonachlor | ND | 2.0 | 0.50 | 1.00 | |
| Dieldrin | ND | 2.0 | 0.55 | 1.00 | |
| Gamma Chlordane | ND | 2.0 | 0.49 | 1.00 | |
| Oxychlordane | ND | 2.0 | 0.63 | 1.00 | |
| Toxaphene | ND | 25 | 8.2 | 1.00 | |
| Trans-nonachlor | ND | 2.0 | 0.56 | 1.00 | |
| Surrogate | Rec. (%) | Control Limits | Qualifiers | | |
| Decachlorobiphenyl | 84 | 50-150 | | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 96 | 50-150 | | | |

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 07/07/15
Work Order: 15-07-0323
Preparation: EPA 3510C
Method: EPA 8081A
Units: ng/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IB-RW-13-G-S-20150707 | 15-07-0323-4-G | 07/07/15 10:35 | Sea Water | GC 44 | 07/13/15 | 07/14/15 13:24 | 150713L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------------------------|----------|----------------|------------|------|------------|
| 2,4'-DDD | ND | 2.0 | 0.58 | 1.00 | |
| 2,4'-DDE | ND | 2.0 | 0.49 | 1.00 | |
| 2,4'-DDT | ND | 2.0 | 0.69 | 1.00 | |
| 4,4'-DDD | ND | 2.0 | 0.55 | 1.00 | |
| 4,4'-DDE | ND | 2.0 | 0.48 | 1.00 | |
| 4,4'-DDT | ND | 2.0 | 0.55 | 1.00 | |
| Alpha Chlordane | ND | 2.0 | 0.49 | 1.00 | |
| Cis-nonachlor | ND | 2.0 | 0.50 | 1.00 | |
| Dieldrin | ND | 2.0 | 0.55 | 1.00 | |
| Gamma Chlordane | ND | 2.0 | 0.49 | 1.00 | |
| Oxychlordane | ND | 2.0 | 0.63 | 1.00 | |
| Toxaphene | ND | 25 | 8.2 | 1.00 | |
| Trans-nonachlor | ND | 2.0 | 0.56 | 1.00 | |
| Surrogate | Rec. (%) | Control Limits | Qualifiers | | |
| Decachlorobiphenyl | 80 | 50-150 | | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 93 | 50-150 | | | |

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 07/07/15
 Work Order: 15-07-0323
 Preparation: EPA 3510C
 Method: EPA 8081A
 Units: ng/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IB-RW-14-G-S-20150707 | 15-07-0323-7-G | 07/07/15 11:16 | Sea Water | GC 44 | 07/13/15 | 07/14/15 13:38 | 150713L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------------------------|----------|----------------|------------|------|------------|
| 2,4'-DDD | ND | 2.0 | 0.58 | 1.00 | |
| 2,4'-DDE | ND | 2.0 | 0.49 | 1.00 | |
| 2,4'-DDT | ND | 2.0 | 0.69 | 1.00 | |
| 4,4'-DDD | ND | 2.0 | 0.55 | 1.00 | |
| 4,4'-DDE | ND | 2.0 | 0.48 | 1.00 | |
| 4,4'-DDT | ND | 2.0 | 0.55 | 1.00 | |
| Alpha Chlordane | ND | 2.0 | 0.49 | 1.00 | |
| Cis-nonachlor | ND | 2.0 | 0.50 | 1.00 | |
| Dieldrin | ND | 2.0 | 0.55 | 1.00 | |
| Gamma Chlordane | ND | 2.0 | 0.49 | 1.00 | |
| Oxychlordane | ND | 2.0 | 0.63 | 1.00 | |
| Toxaphene | ND | 25 | 8.2 | 1.00 | |
| Trans-nonachlor | ND | 2.0 | 0.56 | 1.00 | |
| Surrogate | Rec. (%) | Control Limits | Qualifiers | | |
| Decachlorobiphenyl | 87 | 50-150 | | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 103 | 50-150 | | | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 07/07/15
Work Order: 15-07-0323
Preparation: EPA 3510C
Method: EPA 8081A
Units: ng/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OA-RW-09-G-S-20150707 | 15-07-0323-10-G | 07/07/15 12:14 | Sea Water | GC 44 | 07/13/15 | 07/14/15 13:52 | 150713L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------------------------|----------|----------------|------------|------|------------|
| 2,4'-DDD | ND | 2.0 | 0.58 | 1.00 | |
| 2,4'-DDE | ND | 2.0 | 0.49 | 1.00 | |
| 2,4'-DDT | ND | 2.0 | 0.69 | 1.00 | |
| 4,4'-DDD | ND | 2.0 | 0.55 | 1.00 | |
| 4,4'-DDE | ND | 2.0 | 0.48 | 1.00 | |
| 4,4'-DDT | ND | 2.0 | 0.55 | 1.00 | |
| Alpha Chlordane | ND | 2.0 | 0.49 | 1.00 | |
| Cis-nonachlor | ND | 2.0 | 0.50 | 1.00 | |
| Dieldrin | ND | 2.0 | 0.55 | 1.00 | |
| Gamma Chlordane | ND | 2.0 | 0.49 | 1.00 | |
| Oxychlordane | ND | 2.0 | 0.63 | 1.00 | |
| Toxaphene | ND | 25 | 8.2 | 1.00 | |
| Trans-nonachlor | ND | 2.0 | 0.56 | 1.00 | |
| Surrogate | Rec. (%) | Control Limits | Qualifiers | | |
| Decachlorobiphenyl | 95 | 50-150 | | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 106 | 50-150 | | | |

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 07/07/15
 Work Order: 15-07-0323
 Preparation: EPA 3510C
 Method: EPA 8081A
 Units: ng/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| CB-RW-11-G-S-20150707 | 15-07-0323-13-G | 07/07/15 12:52 | Sea Water | GC 44 | 07/13/15 | 07/14/15 14:06 | 150713L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------------------------|----------|----------------|------------|------|------------|
| 2,4'-DDD | ND | 2.0 | 0.58 | 1.00 | |
| 2,4'-DDE | ND | 2.0 | 0.49 | 1.00 | |
| 2,4'-DDT | ND | 2.0 | 0.69 | 1.00 | |
| 4,4'-DDD | ND | 2.0 | 0.55 | 1.00 | |
| 4,4'-DDE | ND | 2.0 | 0.48 | 1.00 | |
| 4,4'-DDT | ND | 2.0 | 0.55 | 1.00 | |
| Alpha Chlordane | ND | 2.0 | 0.49 | 1.00 | |
| Cis-nonachlor | ND | 2.0 | 0.50 | 1.00 | |
| Dieldrin | ND | 2.0 | 0.55 | 1.00 | |
| Gamma Chlordane | ND | 2.0 | 0.49 | 1.00 | |
| Oxychlordane | ND | 2.0 | 0.63 | 1.00 | |
| Toxaphene | ND | 25 | 8.2 | 1.00 | |
| Trans-nonachlor | ND | 2.0 | 0.56 | 1.00 | |
| Surrogate | Rec. (%) | Control Limits | Qualifiers | | |
| Decachlorobiphenyl | 74 | 50-150 | | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 80 | 50-150 | | | |



 Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 07/07/15
Work Order: 15-07-0323
Preparation: EPA 3510C
Method: EPA 8081A
Units: ng/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| CM-RW-10-G-S-20150707 | 15-07-0323-16-G | 07/07/15 13:40 | Sea Water | GC 44 | 07/13/15 | 07/14/15 14:21 | 150713L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------------------------|----------|----------------|------------|------|------------|
| 2,4'-DDD | ND | 2.0 | 0.58 | 1.00 | |
| 2,4'-DDE | ND | 2.0 | 0.49 | 1.00 | |
| 2,4'-DDT | ND | 2.0 | 0.69 | 1.00 | |
| 4,4'-DDD | ND | 2.0 | 0.55 | 1.00 | |
| 4,4'-DDE | ND | 2.0 | 0.48 | 1.00 | |
| 4,4'-DDT | ND | 2.0 | 0.55 | 1.00 | |
| Alpha Chlordane | ND | 2.0 | 0.49 | 1.00 | |
| Cis-nonachlor | ND | 2.0 | 0.50 | 1.00 | |
| Dieldrin | ND | 2.0 | 0.55 | 1.00 | |
| Gamma Chlordane | ND | 2.0 | 0.49 | 1.00 | |
| Oxychlordane | ND | 2.0 | 0.63 | 1.00 | |
| Toxaphene | ND | 25 | 8.2 | 1.00 | |
| Trans-nonachlor | ND | 2.0 | 0.56 | 1.00 | |
| Surrogate | Rec. (%) | Control Limits | Qualifiers | | |
| Decachlorobiphenyl | 82 | 50-150 | | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 97 | 50-150 | | | |

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

| | | |
|------------------------------|----------------|------------|
| ANCHOR QEA, LLC | Date Received: | 07/07/15 |
| 27201 Puerta Real, Suite 350 | Work Order: | 15-07-0323 |
| Mission Viejo, CA 92691-8306 | Preparation: | EPA 3510C |
| | Method: | EPA 8081A |
| | Units: | ng/L |

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OA-RW-08-G-S-20150707 | 15-07-0323-19-G | 07/07/15 14:20 | Sea Water | GC 44 | 07/13/15 | 07/14/15 14:35 | 150713L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------------------------|----------|----------------|------------|------|------------|
| 2,4'-DDD | ND | 2.0 | 0.58 | 1.00 | |
| 2,4'-DDE | ND | 2.0 | 0.49 | 1.00 | |
| 2,4'-DDT | ND | 2.0 | 0.69 | 1.00 | |
| 4,4'-DDD | ND | 2.0 | 0.55 | 1.00 | |
| 4,4'-DDE | ND | 2.0 | 0.48 | 1.00 | |
| 4,4'-DDT | ND | 2.0 | 0.55 | 1.00 | |
| Alpha Chlordane | ND | 2.0 | 0.49 | 1.00 | |
| Cis-nonachlor | ND | 2.0 | 0.50 | 1.00 | |
| Dieldrin | ND | 2.0 | 0.55 | 1.00 | |
| Gamma Chlordane | ND | 2.0 | 0.49 | 1.00 | |
| Oxychlordane | ND | 2.0 | 0.63 | 1.00 | |
| Toxaphene | ND | 25 | 8.2 | 1.00 | |
| Trans-nonachlor | ND | 2.0 | 0.56 | 1.00 | |
| Surrogate | Rec. (%) | Control Limits | Qualifiers | | |
| Decachlorobiphenyl | 78 | 50-150 | | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 88 | 50-150 | | | |



Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 07/07/15
Work Order: 15-07-0323
Preparation: EPA 3510C
Method: EPA 8081A
Units: ng/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OB-RW-16-G-S-20150707 | 15-07-0323-22-G | 07/07/15 14:46 | Sea Water | GC 44 | 07/13/15 | 07/14/15 14:49 | 150713L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------------------------|----------|----------------|------------|------|------------|
| 2,4'-DDD | ND | 2.0 | 0.58 | 1.00 | |
| 2,4'-DDE | ND | 2.0 | 0.49 | 1.00 | |
| 2,4'-DDT | ND | 2.0 | 0.69 | 1.00 | |
| 4,4'-DDD | ND | 2.0 | 0.55 | 1.00 | |
| 4,4'-DDE | ND | 2.0 | 0.48 | 1.00 | |
| 4,4'-DDT | ND | 2.0 | 0.55 | 1.00 | |
| Alpha Chlordane | ND | 2.0 | 0.49 | 1.00 | |
| Cis-nonachlor | ND | 2.0 | 0.50 | 1.00 | |
| Dieldrin | ND | 2.0 | 0.55 | 1.00 | |
| Gamma Chlordane | ND | 2.0 | 0.49 | 1.00 | |
| Oxychlordane | ND | 2.0 | 0.63 | 1.00 | |
| Toxaphene | ND | 25 | 8.2 | 1.00 | |
| Trans-nonachlor | ND | 2.0 | 0.56 | 1.00 | |
| Surrogate | Rec. (%) | Control Limits | Qualifiers | | |
| Decachlorobiphenyl | 82 | 50-150 | | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 92 | 50-150 | | | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 07/07/15
Work Order: 15-07-0323
Preparation: EPA 3510C
Method: EPA 8081A
Units: ng/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IB-RW-15-G-S-20150707 | 15-07-0323-25-G | 07/07/15 15:15 | Sea Water | GC 44 | 07/13/15 | 07/14/15 15:04 | 150713L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------------------------|----------|----------------|------------|------|------------|
| 2,4'-DDD | ND | 2.0 | 0.58 | 1.00 | |
| 2,4'-DDE | ND | 2.0 | 0.49 | 1.00 | |
| 2,4'-DDT | ND | 2.0 | 0.69 | 1.00 | |
| 4,4'-DDD | ND | 2.0 | 0.55 | 1.00 | |
| 4,4'-DDE | ND | 2.0 | 0.48 | 1.00 | |
| 4,4'-DDT | ND | 2.0 | 0.55 | 1.00 | |
| Alpha Chlordane | ND | 2.0 | 0.49 | 1.00 | |
| Cis-nonachlor | ND | 2.0 | 0.50 | 1.00 | |
| Dieldrin | ND | 2.0 | 0.55 | 1.00 | |
| Gamma Chlordane | ND | 2.0 | 0.49 | 1.00 | |
| Oxychlordane | ND | 2.0 | 0.63 | 1.00 | |
| Toxaphene | ND | 25 | 8.2 | 1.00 | |
| Trans-nonachlor | ND | 2.0 | 0.56 | 1.00 | |
| Surrogate | Rec. (%) | Control Limits | Qualifiers | | |
| Decachlorobiphenyl | 98 | 50-150 | | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 111 | 50-150 | | | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 07/07/15
 Work Order: 15-07-0323
 Preparation: EPA 3510C
 Method: EPA 8081A
 Units: ng/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|---------|------------|---------------|--------------------|-------------|
| Method Blank | 099-16-036-22 | N/A | Aqueous | GC 44 | 07/13/15 | 07/14/15 11:51 | 150713L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------------------------|----------|----------------|------------|------|------------|
| 2,4'-DDD | ND | 2.0 | 0.58 | 1.00 | |
| 2,4'-DDE | ND | 2.0 | 0.49 | 1.00 | |
| 2,4'-DDT | ND | 2.0 | 0.69 | 1.00 | |
| 4,4'-DDD | ND | 2.0 | 0.55 | 1.00 | |
| 4,4'-DDE | ND | 2.0 | 0.48 | 1.00 | |
| 4,4'-DDT | ND | 2.0 | 0.55 | 1.00 | |
| Alpha Chlordane | ND | 2.0 | 0.49 | 1.00 | |
| Cis-nonachlor | ND | 2.0 | 0.50 | 1.00 | |
| Dieldrin | ND | 2.0 | 0.55 | 1.00 | |
| Gamma Chlordane | ND | 2.0 | 0.49 | 1.00 | |
| Oxychlordane | ND | 2.0 | 0.63 | 1.00 | |
| Toxaphene | ND | 25 | 8.2 | 1.00 | |
| Trans-nonachlor | ND | 2.0 | 0.56 | 1.00 | |
| Surrogate | Rec. (%) | Control Limits | Qualifiers | | |
| Decachlorobiphenyl | 85 | 50-150 | | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 74 | 50-150 | | | |



 Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

| | | |
|------------------------------|----------------|-----------------------------|
| ANCHOR QEA, LLC | Date Received: | 07/07/15 |
| 27201 Puerta Real, Suite 350 | Work Order: | 15-07-0323 |
| Mission Viejo, CA 92691-8306 | Preparation: | EPA 3510C |
| | Method: | EPA 8270C SIM PCB Congeners |
| | Units: | ug/L |

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IB-RW-12-G-S-20150707 | 15-07-0323-3-V | 07/07/15 09:30 | Sea Water | GC/MS HHH | 07/13/15 | 07/14/15 21:43 | 150713L02 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------|--------|--------|---------|------|------------|
| PCB018 | ND | 0.0019 | 0.00040 | 1.00 | |
| PCB028 | ND | 0.0019 | 0.00064 | 1.00 | |
| PCB037 | ND | 0.0019 | 0.00046 | 1.00 | |
| PCB044 | ND | 0.0019 | 0.00075 | 1.00 | |
| PCB049 | ND | 0.0019 | 0.00075 | 1.00 | |
| PCB052 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB066 | ND | 0.0019 | 0.00055 | 1.00 | |
| PCB070 | ND | 0.0019 | 0.00037 | 1.00 | |
| PCB074 | ND | 0.0019 | 0.00041 | 1.00 | |
| PCB077 | ND | 0.0019 | 0.00063 | 1.00 | |
| PCB081 | ND | 0.0019 | 0.00047 | 1.00 | |
| PCB087 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB099 | ND | 0.0019 | 0.00058 | 1.00 | |
| PCB101 | ND | 0.0019 | 0.00056 | 1.00 | |
| PCB105 | ND | 0.0019 | 0.00036 | 1.00 | |
| PCB110 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB114 | ND | 0.0019 | 0.00042 | 1.00 | |
| PCB118 | ND | 0.0019 | 0.00047 | 1.00 | |
| PCB119 | ND | 0.0019 | 0.00041 | 1.00 | |
| PCB123 | ND | 0.0019 | 0.00074 | 1.00 | |
| PCB126 | ND | 0.0019 | 0.00052 | 1.00 | |
| PCB128 | ND | 0.0019 | 0.00068 | 1.00 | |
| PCB132/153 | ND | 0.0038 | 0.0011 | 1.00 | |
| PCB138/158 | ND | 0.0038 | 0.0011 | 1.00 | |
| PCB149 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB151 | ND | 0.0019 | 0.00059 | 1.00 | |
| PCB156 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB157 | ND | 0.0019 | 0.00072 | 1.00 | |
| PCB167 | ND | 0.0019 | 0.00083 | 1.00 | |
| PCB168 | ND | 0.0019 | 0.00032 | 1.00 | |
| PCB169 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB170 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB177 | ND | 0.0019 | 0.00055 | 1.00 | |
| PCB180 | ND | 0.0019 | 0.00069 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 07/07/15
 Work Order: 15-07-0323
 Preparation: EPA 3510C
 Method: EPA 8270C SIM PCB Congeners
 Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|-----------------|-----------------------|-------------------|-----------|-------------------|
| PCB183 | ND | 0.0019 | 0.00051 | 1.00 | |
| PCB187 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB189 | ND | 0.0019 | 0.00038 | 1.00 | |
| PCB194 | ND | 0.0019 | 0.00040 | 1.00 | |
| PCB195 | ND | 0.0019 | 0.00034 | 1.00 | |
| PCB201 | ND | 0.0019 | 0.00070 | 1.00 | |
| PCB206 | ND | 0.0019 | 0.00025 | 1.00 | |
| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> | | |
| 2-Fluorobiphenyl | 69 | 50-150 | | | |
| p-Terphenyl-d14 | 79 | 50-150 | | | |



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 07/07/15
Work Order: 15-07-0323
Preparation: EPA 3510C
Method: EPA 8270C SIM PCB Congeners
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IB-RW-13-G-S-20150707 | 15-07-0323-4-F | 07/07/15 10:35 | Sea Water | GC/MS HHH | 07/13/15 | 07/14/15 22:07 | 150713L02 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------|--------|--------|---------|------|------------|
| PCB018 | ND | 0.0019 | 0.00040 | 1.00 | |
| PCB028 | ND | 0.0019 | 0.00064 | 1.00 | |
| PCB037 | ND | 0.0019 | 0.00046 | 1.00 | |
| PCB044 | ND | 0.0019 | 0.00075 | 1.00 | |
| PCB049 | ND | 0.0019 | 0.00075 | 1.00 | |
| PCB052 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB066 | ND | 0.0019 | 0.00055 | 1.00 | |
| PCB070 | ND | 0.0019 | 0.00037 | 1.00 | |
| PCB074 | ND | 0.0019 | 0.00041 | 1.00 | |
| PCB077 | ND | 0.0019 | 0.00063 | 1.00 | |
| PCB081 | ND | 0.0019 | 0.00047 | 1.00 | |
| PCB087 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB099 | ND | 0.0019 | 0.00058 | 1.00 | |
| PCB101 | ND | 0.0019 | 0.00056 | 1.00 | |
| PCB105 | ND | 0.0019 | 0.00036 | 1.00 | |
| PCB110 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB114 | ND | 0.0019 | 0.00042 | 1.00 | |
| PCB118 | ND | 0.0019 | 0.00047 | 1.00 | |
| PCB119 | ND | 0.0019 | 0.00041 | 1.00 | |
| PCB123 | ND | 0.0019 | 0.00074 | 1.00 | |
| PCB126 | ND | 0.0019 | 0.00052 | 1.00 | |
| PCB128 | ND | 0.0019 | 0.00068 | 1.00 | |
| PCB132/153 | ND | 0.0038 | 0.0011 | 1.00 | |
| PCB138/158 | ND | 0.0038 | 0.0011 | 1.00 | |
| PCB149 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB151 | ND | 0.0019 | 0.00059 | 1.00 | |
| PCB156 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB157 | ND | 0.0019 | 0.00072 | 1.00 | |
| PCB167 | ND | 0.0019 | 0.00083 | 1.00 | |
| PCB168 | ND | 0.0019 | 0.00032 | 1.00 | |
| PCB169 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB170 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB177 | ND | 0.0019 | 0.00055 | 1.00 | |
| PCB180 | ND | 0.0019 | 0.00069 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 07/07/15
 Work Order: 15-07-0323
 Preparation: EPA 3510C
 Method: EPA 8270C SIM PCB Congeners
 Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|-----------------|-----------------------|-------------------|-----------|-------------------|
| PCB183 | ND | 0.0019 | 0.00051 | 1.00 | |
| PCB187 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB189 | ND | 0.0019 | 0.00038 | 1.00 | |
| PCB194 | ND | 0.0019 | 0.00040 | 1.00 | |
| PCB195 | ND | 0.0019 | 0.00034 | 1.00 | |
| PCB201 | ND | 0.0019 | 0.00070 | 1.00 | |
| PCB206 | ND | 0.0019 | 0.00025 | 1.00 | |
| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> | | |
| 2-Fluorobiphenyl | 102 | 50-150 | | | |
| p-Terphenyl-d14 | 90 | 50-150 | | | |

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 07/07/15
Work Order: 15-07-0323
Preparation: EPA 3510C
Method: EPA 8270C SIM PCB Congeners
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IB-RW-14-G-S-20150707 | 15-07-0323-7-F | 07/07/15 11:16 | Sea Water | GC/MS HHH | 07/13/15 | 07/14/15 22:32 | 150713L02 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------|--------|--------|---------|------|------------|
| PCB018 | ND | 0.0019 | 0.00040 | 1.00 | |
| PCB028 | ND | 0.0019 | 0.00064 | 1.00 | |
| PCB037 | ND | 0.0019 | 0.00046 | 1.00 | |
| PCB044 | ND | 0.0019 | 0.00075 | 1.00 | |
| PCB049 | ND | 0.0019 | 0.00075 | 1.00 | |
| PCB052 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB066 | ND | 0.0019 | 0.00055 | 1.00 | |
| PCB070 | ND | 0.0019 | 0.00037 | 1.00 | |
| PCB074 | ND | 0.0019 | 0.00041 | 1.00 | |
| PCB077 | ND | 0.0019 | 0.00063 | 1.00 | |
| PCB081 | ND | 0.0019 | 0.00047 | 1.00 | |
| PCB087 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB099 | ND | 0.0019 | 0.00058 | 1.00 | |
| PCB101 | ND | 0.0019 | 0.00056 | 1.00 | |
| PCB105 | ND | 0.0019 | 0.00036 | 1.00 | |
| PCB110 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB114 | ND | 0.0019 | 0.00042 | 1.00 | |
| PCB118 | ND | 0.0019 | 0.00047 | 1.00 | |
| PCB119 | ND | 0.0019 | 0.00041 | 1.00 | |
| PCB123 | ND | 0.0019 | 0.00074 | 1.00 | |
| PCB126 | ND | 0.0019 | 0.00052 | 1.00 | |
| PCB128 | ND | 0.0019 | 0.00068 | 1.00 | |
| PCB132/153 | ND | 0.0038 | 0.0011 | 1.00 | |
| PCB138/158 | ND | 0.0038 | 0.0011 | 1.00 | |
| PCB149 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB151 | ND | 0.0019 | 0.00059 | 1.00 | |
| PCB156 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB157 | ND | 0.0019 | 0.00072 | 1.00 | |
| PCB167 | ND | 0.0019 | 0.00083 | 1.00 | |
| PCB168 | ND | 0.0019 | 0.00032 | 1.00 | |
| PCB169 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB170 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB177 | ND | 0.0019 | 0.00055 | 1.00 | |
| PCB180 | ND | 0.0019 | 0.00069 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 07/07/15
 Work Order: 15-07-0323
 Preparation: EPA 3510C
 Method: EPA 8270C SIM PCB Congeners
 Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|-----------------|-----------------------|-------------------|-----------|-------------------|
| PCB183 | ND | 0.0019 | 0.00051 | 1.00 | |
| PCB187 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB189 | ND | 0.0019 | 0.00038 | 1.00 | |
| PCB194 | ND | 0.0019 | 0.00040 | 1.00 | |
| PCB195 | ND | 0.0019 | 0.00034 | 1.00 | |
| PCB201 | ND | 0.0019 | 0.00070 | 1.00 | |
| PCB206 | ND | 0.0019 | 0.00025 | 1.00 | |
| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> | | |
| 2-Fluorobiphenyl | 90 | 50-150 | | | |
| p-Terphenyl-d14 | 96 | 50-150 | | | |


 Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

| | | |
|------------------------------|----------------|-----------------------------|
| ANCHOR QEA, LLC | Date Received: | 07/07/15 |
| 27201 Puerta Real, Suite 350 | Work Order: | 15-07-0323 |
| Mission Viejo, CA 92691-8306 | Preparation: | EPA 3510C |
| | Method: | EPA 8270C SIM PCB Congeners |
| | Units: | ug/L |

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OA-RW-09-G-S-20150707 | 15-07-0323-10-F | 07/07/15 12:14 | Sea Water | GC/MS HHH | 07/13/15 | 07/14/15 22:57 | 150713L02 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------|--------|--------|---------|------|------------|
| PCB018 | ND | 0.0019 | 0.00040 | 1.00 | |
| PCB028 | ND | 0.0019 | 0.00064 | 1.00 | |
| PCB037 | ND | 0.0019 | 0.00046 | 1.00 | |
| PCB044 | ND | 0.0019 | 0.00075 | 1.00 | |
| PCB049 | ND | 0.0019 | 0.00075 | 1.00 | |
| PCB052 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB066 | ND | 0.0019 | 0.00055 | 1.00 | |
| PCB070 | ND | 0.0019 | 0.00037 | 1.00 | |
| PCB074 | ND | 0.0019 | 0.00041 | 1.00 | |
| PCB077 | ND | 0.0019 | 0.00063 | 1.00 | |
| PCB081 | ND | 0.0019 | 0.00047 | 1.00 | |
| PCB087 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB099 | ND | 0.0019 | 0.00058 | 1.00 | |
| PCB101 | ND | 0.0019 | 0.00056 | 1.00 | |
| PCB105 | ND | 0.0019 | 0.00036 | 1.00 | |
| PCB110 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB114 | ND | 0.0019 | 0.00042 | 1.00 | |
| PCB118 | ND | 0.0019 | 0.00047 | 1.00 | |
| PCB119 | ND | 0.0019 | 0.00041 | 1.00 | |
| PCB123 | ND | 0.0019 | 0.00074 | 1.00 | |
| PCB126 | ND | 0.0019 | 0.00052 | 1.00 | |
| PCB128 | ND | 0.0019 | 0.00068 | 1.00 | |
| PCB132/153 | ND | 0.0038 | 0.0011 | 1.00 | |
| PCB138/158 | ND | 0.0038 | 0.0011 | 1.00 | |
| PCB149 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB151 | ND | 0.0019 | 0.00059 | 1.00 | |
| PCB156 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB157 | ND | 0.0019 | 0.00072 | 1.00 | |
| PCB167 | ND | 0.0019 | 0.00083 | 1.00 | |
| PCB168 | ND | 0.0019 | 0.00032 | 1.00 | |
| PCB169 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB170 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB177 | ND | 0.0019 | 0.00055 | 1.00 | |
| PCB180 | ND | 0.0019 | 0.00069 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 07/07/15
 Work Order: 15-07-0323
 Preparation: EPA 3510C
 Method: EPA 8270C SIM PCB Congeners
 Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|-----------------|-----------------------|-------------------|-----------|-------------------|
| PCB183 | ND | 0.0019 | 0.00051 | 1.00 | |
| PCB187 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB189 | ND | 0.0019 | 0.00038 | 1.00 | |
| PCB194 | ND | 0.0019 | 0.00040 | 1.00 | |
| PCB195 | ND | 0.0019 | 0.00034 | 1.00 | |
| PCB201 | ND | 0.0019 | 0.00070 | 1.00 | |
| PCB206 | ND | 0.0019 | 0.00025 | 1.00 | |
| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> | | |
| 2-Fluorobiphenyl | 91 | 50-150 | | | |
| p-Terphenyl-d14 | 97 | 50-150 | | | |

Return to Contents 

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 07/07/15
Work Order: 15-07-0323
Preparation: EPA 3510C
Method: EPA 8270C SIM PCB Congeners
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| CB-RW-11-G-S-20150707 | 15-07-0323-13-F | 07/07/15 12:52 | Sea Water | GC/MS HHH | 07/13/15 | 07/14/15 23:21 | 150713L02 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------|--------|--------|---------|------|------------|
| PCB018 | ND | 0.0019 | 0.00040 | 1.00 | |
| PCB028 | ND | 0.0019 | 0.00064 | 1.00 | |
| PCB037 | ND | 0.0019 | 0.00046 | 1.00 | |
| PCB044 | ND | 0.0019 | 0.00075 | 1.00 | |
| PCB049 | ND | 0.0019 | 0.00075 | 1.00 | |
| PCB052 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB066 | ND | 0.0019 | 0.00055 | 1.00 | |
| PCB070 | ND | 0.0019 | 0.00037 | 1.00 | |
| PCB074 | ND | 0.0019 | 0.00041 | 1.00 | |
| PCB077 | ND | 0.0019 | 0.00063 | 1.00 | |
| PCB081 | ND | 0.0019 | 0.00047 | 1.00 | |
| PCB087 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB099 | ND | 0.0019 | 0.00058 | 1.00 | |
| PCB101 | ND | 0.0019 | 0.00056 | 1.00 | |
| PCB105 | ND | 0.0019 | 0.00036 | 1.00 | |
| PCB110 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB114 | ND | 0.0019 | 0.00042 | 1.00 | |
| PCB118 | ND | 0.0019 | 0.00047 | 1.00 | |
| PCB119 | ND | 0.0019 | 0.00041 | 1.00 | |
| PCB123 | ND | 0.0019 | 0.00074 | 1.00 | |
| PCB126 | ND | 0.0019 | 0.00052 | 1.00 | |
| PCB128 | ND | 0.0019 | 0.00068 | 1.00 | |
| PCB132/153 | ND | 0.0038 | 0.0011 | 1.00 | |
| PCB138/158 | ND | 0.0038 | 0.0011 | 1.00 | |
| PCB149 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB151 | ND | 0.0019 | 0.00059 | 1.00 | |
| PCB156 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB157 | ND | 0.0019 | 0.00072 | 1.00 | |
| PCB167 | ND | 0.0019 | 0.00083 | 1.00 | |
| PCB168 | ND | 0.0019 | 0.00032 | 1.00 | |
| PCB169 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB170 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB177 | ND | 0.0019 | 0.00055 | 1.00 | |
| PCB180 | ND | 0.0019 | 0.00069 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 07/07/15
 Work Order: 15-07-0323
 Preparation: EPA 3510C
 Method: EPA 8270C SIM PCB Congeners
 Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|-----------------|-----------------------|-------------------|-----------|-------------------|
| PCB183 | ND | 0.0019 | 0.00051 | 1.00 | |
| PCB187 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB189 | ND | 0.0019 | 0.00038 | 1.00 | |
| PCB194 | ND | 0.0019 | 0.00040 | 1.00 | |
| PCB195 | ND | 0.0019 | 0.00034 | 1.00 | |
| PCB201 | ND | 0.0019 | 0.00070 | 1.00 | |
| PCB206 | ND | 0.0019 | 0.00025 | 1.00 | |
| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> | | |
| 2-Fluorobiphenyl | 103 | 50-150 | | | |
| p-Terphenyl-d14 | 106 | 50-150 | | | |

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 07/07/15
Work Order: 15-07-0323
Preparation: EPA 3510C
Method: EPA 8270C SIM PCB Congeners
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| CM-RW-10-G-S-20150707 | 15-07-0323-16-F | 07/07/15 13:40 | Sea Water | GC/MS HHH | 07/13/15 | 07/14/15 23:45 | 150713L02 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------|--------|--------|---------|------|------------|
| PCB018 | ND | 0.0019 | 0.00040 | 1.00 | |
| PCB028 | ND | 0.0019 | 0.00064 | 1.00 | |
| PCB037 | ND | 0.0019 | 0.00046 | 1.00 | |
| PCB044 | ND | 0.0019 | 0.00075 | 1.00 | |
| PCB049 | ND | 0.0019 | 0.00075 | 1.00 | |
| PCB052 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB066 | ND | 0.0019 | 0.00055 | 1.00 | |
| PCB070 | ND | 0.0019 | 0.00037 | 1.00 | |
| PCB074 | ND | 0.0019 | 0.00041 | 1.00 | |
| PCB077 | ND | 0.0019 | 0.00063 | 1.00 | |
| PCB081 | ND | 0.0019 | 0.00047 | 1.00 | |
| PCB087 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB099 | ND | 0.0019 | 0.00058 | 1.00 | |
| PCB101 | ND | 0.0019 | 0.00056 | 1.00 | |
| PCB105 | ND | 0.0019 | 0.00036 | 1.00 | |
| PCB110 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB114 | ND | 0.0019 | 0.00042 | 1.00 | |
| PCB118 | ND | 0.0019 | 0.00047 | 1.00 | |
| PCB119 | ND | 0.0019 | 0.00041 | 1.00 | |
| PCB123 | ND | 0.0019 | 0.00074 | 1.00 | |
| PCB126 | ND | 0.0019 | 0.00052 | 1.00 | |
| PCB128 | ND | 0.0019 | 0.00068 | 1.00 | |
| PCB132/153 | ND | 0.0038 | 0.0011 | 1.00 | |
| PCB138/158 | ND | 0.0038 | 0.0011 | 1.00 | |
| PCB149 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB151 | ND | 0.0019 | 0.00059 | 1.00 | |
| PCB156 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB157 | ND | 0.0019 | 0.00072 | 1.00 | |
| PCB167 | ND | 0.0019 | 0.00083 | 1.00 | |
| PCB168 | ND | 0.0019 | 0.00032 | 1.00 | |
| PCB169 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB170 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB177 | ND | 0.0019 | 0.00055 | 1.00 | |
| PCB180 | ND | 0.0019 | 0.00069 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 07/07/15
 Work Order: 15-07-0323
 Preparation: EPA 3510C
 Method: EPA 8270C SIM PCB Congeners
 Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|-----------------|-----------------------|-------------------|-----------|-------------------|
| PCB183 | ND | 0.0019 | 0.00051 | 1.00 | |
| PCB187 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB189 | ND | 0.0019 | 0.00038 | 1.00 | |
| PCB194 | ND | 0.0019 | 0.00040 | 1.00 | |
| PCB195 | ND | 0.0019 | 0.00034 | 1.00 | |
| PCB201 | ND | 0.0019 | 0.00070 | 1.00 | |
| PCB206 | ND | 0.0019 | 0.00025 | 1.00 | |
| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> | | |
| 2-Fluorobiphenyl | 86 | 50-150 | | | |
| p-Terphenyl-d14 | 93 | 50-150 | | | |



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Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 07/07/15
Work Order: 15-07-0323
Preparation: EPA 3510C
Method: EPA 8270C SIM PCB Congeners
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OA-RW-08-G-S-20150707 | 15-07-0323-19-F | 07/07/15 14:20 | Sea Water | GC/MS HHH | 07/13/15 | 07/15/15 00:10 | 150713L02 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------|--------|--------|---------|------|------------|
| PCB018 | ND | 0.0019 | 0.00040 | 1.00 | |
| PCB028 | ND | 0.0019 | 0.00064 | 1.00 | |
| PCB037 | ND | 0.0019 | 0.00046 | 1.00 | |
| PCB044 | ND | 0.0019 | 0.00075 | 1.00 | |
| PCB049 | ND | 0.0019 | 0.00075 | 1.00 | |
| PCB052 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB066 | ND | 0.0019 | 0.00055 | 1.00 | |
| PCB070 | ND | 0.0019 | 0.00037 | 1.00 | |
| PCB074 | ND | 0.0019 | 0.00041 | 1.00 | |
| PCB077 | ND | 0.0019 | 0.00063 | 1.00 | |
| PCB081 | ND | 0.0019 | 0.00047 | 1.00 | |
| PCB087 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB099 | ND | 0.0019 | 0.00058 | 1.00 | |
| PCB101 | ND | 0.0019 | 0.00056 | 1.00 | |
| PCB105 | ND | 0.0019 | 0.00036 | 1.00 | |
| PCB110 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB114 | ND | 0.0019 | 0.00042 | 1.00 | |
| PCB118 | ND | 0.0019 | 0.00047 | 1.00 | |
| PCB119 | ND | 0.0019 | 0.00041 | 1.00 | |
| PCB123 | ND | 0.0019 | 0.00074 | 1.00 | |
| PCB126 | ND | 0.0019 | 0.00052 | 1.00 | |
| PCB128 | ND | 0.0019 | 0.00068 | 1.00 | |
| PCB132/153 | ND | 0.0038 | 0.0011 | 1.00 | |
| PCB138/158 | ND | 0.0038 | 0.0011 | 1.00 | |
| PCB149 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB151 | ND | 0.0019 | 0.00059 | 1.00 | |
| PCB156 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB157 | ND | 0.0019 | 0.00072 | 1.00 | |
| PCB167 | ND | 0.0019 | 0.00083 | 1.00 | |
| PCB168 | ND | 0.0019 | 0.00032 | 1.00 | |
| PCB169 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB170 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB177 | ND | 0.0019 | 0.00055 | 1.00 | |
| PCB180 | ND | 0.0019 | 0.00069 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 07/07/15
 Work Order: 15-07-0323
 Preparation: EPA 3510C
 Method: EPA 8270C SIM PCB Congeners
 Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|-----------------|-----------------------|-------------------|-----------|-------------------|
| PCB183 | ND | 0.0019 | 0.00051 | 1.00 | |
| PCB187 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB189 | ND | 0.0019 | 0.00038 | 1.00 | |
| PCB194 | ND | 0.0019 | 0.00040 | 1.00 | |
| PCB195 | ND | 0.0019 | 0.00034 | 1.00 | |
| PCB201 | ND | 0.0019 | 0.00070 | 1.00 | |
| PCB206 | ND | 0.0019 | 0.00025 | 1.00 | |
| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> | | |
| 2-Fluorobiphenyl | 82 | 50-150 | | | |
| p-Terphenyl-d14 | 76 | 50-150 | | | |

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 07/07/15
Work Order: 15-07-0323
Preparation: EPA 3510C
Method: EPA 8270C SIM PCB Congeners
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OB-RW-16-G-S-20150707 | 15-07-0323-22-E | 07/07/15 14:46 | Sea Water | GC/MS HHH | 07/13/15 | 07/15/15 00:34 | 150713L02 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------|--------|--------|---------|------|------------|
| PCB018 | ND | 0.0020 | 0.00041 | 1.00 | |
| PCB028 | ND | 0.0020 | 0.00065 | 1.00 | |
| PCB037 | ND | 0.0020 | 0.00047 | 1.00 | |
| PCB044 | ND | 0.0020 | 0.00076 | 1.00 | |
| PCB049 | ND | 0.0020 | 0.00077 | 1.00 | |
| PCB052 | ND | 0.0020 | 0.00050 | 1.00 | |
| PCB066 | ND | 0.0020 | 0.00056 | 1.00 | |
| PCB070 | ND | 0.0020 | 0.00037 | 1.00 | |
| PCB074 | ND | 0.0020 | 0.00042 | 1.00 | |
| PCB077 | ND | 0.0020 | 0.00064 | 1.00 | |
| PCB081 | ND | 0.0020 | 0.00047 | 1.00 | |
| PCB087 | ND | 0.0020 | 0.00049 | 1.00 | |
| PCB099 | ND | 0.0020 | 0.00059 | 1.00 | |
| PCB101 | ND | 0.0020 | 0.00057 | 1.00 | |
| PCB105 | ND | 0.0020 | 0.00037 | 1.00 | |
| PCB110 | ND | 0.0020 | 0.00049 | 1.00 | |
| PCB114 | ND | 0.0020 | 0.00043 | 1.00 | |
| PCB118 | ND | 0.0020 | 0.00048 | 1.00 | |
| PCB119 | ND | 0.0020 | 0.00042 | 1.00 | |
| PCB123 | ND | 0.0020 | 0.00075 | 1.00 | |
| PCB126 | ND | 0.0020 | 0.00053 | 1.00 | |
| PCB128 | ND | 0.0020 | 0.00069 | 1.00 | |
| PCB132/153 | ND | 0.0039 | 0.0012 | 1.00 | |
| PCB138/158 | ND | 0.0039 | 0.0011 | 1.00 | |
| PCB149 | ND | 0.0020 | 0.00050 | 1.00 | |
| PCB151 | ND | 0.0020 | 0.00060 | 1.00 | |
| PCB156 | ND | 0.0020 | 0.00050 | 1.00 | |
| PCB157 | ND | 0.0020 | 0.00074 | 1.00 | |
| PCB167 | ND | 0.0020 | 0.00085 | 1.00 | |
| PCB168 | ND | 0.0020 | 0.00032 | 1.00 | |
| PCB169 | ND | 0.0020 | 0.00055 | 1.00 | |
| PCB170 | ND | 0.0020 | 0.00055 | 1.00 | |
| PCB177 | ND | 0.0020 | 0.00056 | 1.00 | |
| PCB180 | ND | 0.0020 | 0.00070 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 07/07/15
 Work Order: 15-07-0323
 Preparation: EPA 3510C
 Method: EPA 8270C SIM PCB Congeners
 Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|-----------------|-----------------------|-------------------|-----------|-------------------|
| PCB183 | ND | 0.0020 | 0.00052 | 1.00 | |
| PCB187 | ND | 0.0020 | 0.00055 | 1.00 | |
| PCB189 | ND | 0.0020 | 0.00039 | 1.00 | |
| PCB194 | ND | 0.0020 | 0.00041 | 1.00 | |
| PCB195 | ND | 0.0020 | 0.00035 | 1.00 | |
| PCB201 | ND | 0.0020 | 0.00071 | 1.00 | |
| PCB206 | ND | 0.0020 | 0.00025 | 1.00 | |
| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> | | |
| 2-Fluorobiphenyl | 85 | 50-150 | | | |
| p-Terphenyl-d14 | 93 | 50-150 | | | |

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 07/07/15
Work Order: 15-07-0323
Preparation: EPA 3510C
Method: EPA 8270C SIM PCB Congeners
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IB-RW-15-G-S-20150707 | 15-07-0323-25-E | 07/07/15 15:15 | Sea Water | GC/MS HHH | 07/13/15 | 07/15/15 00:59 | 150713L02 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------|--------|--------|---------|------|------------|
| PCB018 | ND | 0.0019 | 0.00040 | 1.00 | |
| PCB028 | ND | 0.0019 | 0.00064 | 1.00 | |
| PCB037 | ND | 0.0019 | 0.00046 | 1.00 | |
| PCB044 | ND | 0.0019 | 0.00076 | 1.00 | |
| PCB049 | ND | 0.0019 | 0.00076 | 1.00 | |
| PCB052 | ND | 0.0019 | 0.00050 | 1.00 | |
| PCB066 | ND | 0.0019 | 0.00056 | 1.00 | |
| PCB070 | ND | 0.0019 | 0.00037 | 1.00 | |
| PCB074 | ND | 0.0019 | 0.00042 | 1.00 | |
| PCB077 | ND | 0.0019 | 0.00063 | 1.00 | |
| PCB081 | ND | 0.0019 | 0.00047 | 1.00 | |
| PCB087 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB099 | ND | 0.0019 | 0.00059 | 1.00 | |
| PCB101 | ND | 0.0019 | 0.00056 | 1.00 | |
| PCB105 | ND | 0.0019 | 0.00037 | 1.00 | |
| PCB110 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB114 | ND | 0.0019 | 0.00043 | 1.00 | |
| PCB118 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB119 | ND | 0.0019 | 0.00042 | 1.00 | |
| PCB123 | ND | 0.0019 | 0.00074 | 1.00 | |
| PCB126 | ND | 0.0019 | 0.00053 | 1.00 | |
| PCB128 | ND | 0.0019 | 0.00068 | 1.00 | |
| PCB132/153 | ND | 0.0039 | 0.0011 | 1.00 | |
| PCB138/158 | ND | 0.0039 | 0.0011 | 1.00 | |
| PCB149 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB151 | ND | 0.0019 | 0.00059 | 1.00 | |
| PCB156 | ND | 0.0019 | 0.00050 | 1.00 | |
| PCB157 | ND | 0.0019 | 0.00073 | 1.00 | |
| PCB167 | ND | 0.0019 | 0.00084 | 1.00 | |
| PCB168 | ND | 0.0019 | 0.00032 | 1.00 | |
| PCB169 | ND | 0.0019 | 0.00055 | 1.00 | |
| PCB170 | ND | 0.0019 | 0.00055 | 1.00 | |
| PCB177 | ND | 0.0019 | 0.00055 | 1.00 | |
| PCB180 | ND | 0.0019 | 0.00070 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 07/07/15
 Work Order: 15-07-0323
 Preparation: EPA 3510C
 Method: EPA 8270C SIM PCB Congeners
 Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|-----------------|-----------------------|-------------------|-----------|-------------------|
| PCB183 | ND | 0.0019 | 0.00052 | 1.00 | |
| PCB187 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB189 | ND | 0.0019 | 0.00039 | 1.00 | |
| PCB194 | ND | 0.0019 | 0.00041 | 1.00 | |
| PCB195 | ND | 0.0019 | 0.00034 | 1.00 | |
| PCB201 | ND | 0.0019 | 0.00070 | 1.00 | |
| PCB206 | ND | 0.0019 | 0.00025 | 1.00 | |
| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> | | |
| 2-Fluorobiphenyl | 91 | 50-150 | | | |
| p-Terphenyl-d14 | 93 | 50-150 | | | |


 Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 07/07/15
Work Order: 15-07-0323
Preparation: EPA 3510C
Method: EPA 8270C SIM PCB Congeners
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|---------|------------|---------------|--------------------|-------------|
| Method Blank | 099-16-414-46 | N/A | Aqueous | GC/MS HHH | 07/13/15 | 07/14/15 18:49 | 150713L02 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------|--------|--------|---------|------|------------|
| PCB018 | ND | 0.0020 | 0.00042 | 1.00 | |
| PCB028 | ND | 0.0020 | 0.00066 | 1.00 | |
| PCB037 | ND | 0.0020 | 0.00048 | 1.00 | |
| PCB044 | ND | 0.0020 | 0.00078 | 1.00 | |
| PCB049 | ND | 0.0020 | 0.00078 | 1.00 | |
| PCB052 | ND | 0.0020 | 0.00051 | 1.00 | |
| PCB066 | ND | 0.0020 | 0.00057 | 1.00 | |
| PCB070 | ND | 0.0020 | 0.00038 | 1.00 | |
| PCB074 | ND | 0.0020 | 0.00043 | 1.00 | |
| PCB077 | ND | 0.0020 | 0.00065 | 1.00 | |
| PCB081 | ND | 0.0020 | 0.00048 | 1.00 | |
| PCB087 | ND | 0.0020 | 0.00050 | 1.00 | |
| PCB099 | ND | 0.0020 | 0.00060 | 1.00 | |
| PCB101 | ND | 0.0020 | 0.00058 | 1.00 | |
| PCB105 | ND | 0.0020 | 0.00038 | 1.00 | |
| PCB110 | ND | 0.0020 | 0.00050 | 1.00 | |
| PCB114 | ND | 0.0020 | 0.00044 | 1.00 | |
| PCB118 | ND | 0.0020 | 0.00049 | 1.00 | |
| PCB119 | ND | 0.0020 | 0.00043 | 1.00 | |
| PCB123 | ND | 0.0020 | 0.00077 | 1.00 | |
| PCB126 | ND | 0.0020 | 0.00055 | 1.00 | |
| PCB128 | ND | 0.0020 | 0.00070 | 1.00 | |
| PCB132/153 | ND | 0.0040 | 0.0012 | 1.00 | |
| PCB138/158 | ND | 0.0040 | 0.0011 | 1.00 | |
| PCB149 | ND | 0.0020 | 0.00050 | 1.00 | |
| PCB151 | ND | 0.0020 | 0.00061 | 1.00 | |
| PCB156 | ND | 0.0020 | 0.00051 | 1.00 | |
| PCB157 | ND | 0.0020 | 0.00075 | 1.00 | |
| PCB167 | ND | 0.0020 | 0.00087 | 1.00 | |
| PCB168 | ND | 0.0020 | 0.00033 | 1.00 | |
| PCB169 | ND | 0.0020 | 0.00056 | 1.00 | |
| PCB170 | ND | 0.0020 | 0.00056 | 1.00 | |
| PCB177 | ND | 0.0020 | 0.00057 | 1.00 | |
| PCB180 | ND | 0.0020 | 0.00072 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 07/07/15
 Work Order: 15-07-0323
 Preparation: EPA 3510C
 Method: EPA 8270C SIM PCB Congeners
 Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|-----------------|-----------------------|-------------------|-----------|-------------------|
| PCB183 | ND | 0.0020 | 0.00053 | 1.00 | |
| PCB187 | ND | 0.0020 | 0.00056 | 1.00 | |
| PCB189 | ND | 0.0020 | 0.00040 | 1.00 | |
| PCB194 | ND | 0.0020 | 0.00042 | 1.00 | |
| PCB195 | ND | 0.0020 | 0.00035 | 1.00 | |
| PCB201 | ND | 0.0020 | 0.00072 | 1.00 | |
| PCB206 | ND | 0.0020 | 0.00026 | 1.00 | |
| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> | | |
| 2-Fluorobiphenyl | 86 | 50-150 | | | |
| p-Terphenyl-d14 | 97 | 50-150 | | | |

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Quality Control - Spike/Spike Duplicate

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 07/07/15
Work Order: 15-07-0323
Preparation: EPA 1631E Total
Method: EPA 1631E

Project: GWMA - TMDL Compliance Monitoring

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| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | MS/MSD Batch Number |
|---------------------------|------------------------|-----------|------------|---------------|----------------|---------------------|
| IB-RW-12-G-S-20150707 | Sample | Sea Water | Hg/AF 1 | 07/16/15 | 07/16/15 00:00 | 150716S03 |
| IB-RW-12-G-S-20150707 | Matrix Spike | Sea Water | Hg/AF 1 | 07/16/15 | 07/16/15 00:00 | 150716S03 |
| IB-RW-12-G-S-20150707 | Matrix Spike Duplicate | Sea Water | Hg/AF 1 | 07/16/15 | 07/16/15 00:00 | 150716S03 |

| Parameter | Sample Conc. | Spike Added | MS Conc. | MS %Rec. | MSD Conc. | MSD %Rec. | %Rec. CL | RPD | RPD CL | Qualifiers |
|-----------|--------------|-------------|----------|----------|-----------|-----------|----------|-----|--------|------------|
| Mercury | ND | 0.02000 | 0.02133 | 107 | 0.02112 | 106 | 71-125 | 1 | 0-24 | |


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RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - Spike/Spike Duplicate

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 07/07/15
Work Order: 15-07-0323
Preparation: Filtered
Method: EPA 1631E

Project: GWMA - TMDL Compliance Monitoring

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| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | MS/MSD Batch Number |
|---------------------------|------------------------|-----------|------------|---------------|----------------|---------------------|
| IB-RW-12-G-S-20150707 | Sample | Sea Water | Hg/AF 1 | 07/16/15 | 07/16/15 00:00 | 150716S03A |
| IB-RW-12-G-S-20150707 | Matrix Spike | Sea Water | Hg/AF 1 | 07/16/15 | 07/16/15 00:00 | 150716S03A |
| IB-RW-12-G-S-20150707 | Matrix Spike Duplicate | Sea Water | Hg/AF 1 | 07/16/15 | 07/16/15 00:00 | 150716S03A |

| Parameter | Sample Conc. | Spike Added | MS Conc. | MS %Rec. | MSD Conc. | MSD %Rec. | %Rec. CL | RPD | RPD CL | Qualifiers |
|-----------|--------------|-------------|----------|----------|-----------|-----------|----------|-----|--------|------------|
| Mercury | ND | 0.02000 | 0.02161 | 108 | 0.02206 | 110 | 71-125 | 2 | 0-24 | |

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RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - Spike/Spike Duplicate

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 07/07/15
Work Order: 15-07-0323
Preparation: EPA 3005A Total
Method: EPA 1640

Project: GWMA - TMDL Compliance Monitoring

Page 3 of 5

| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | MS/MSD Batch Number | | | | |
|---------------------------|------------------------|-------------|------------|---------------|----------------|---------------------|----------|-----|--------|------------|
| IB-RW-12-G-S-20150707 | Sample | Sea Water | ICP/MS 05 | 07/14/15 | 07/14/15 20:23 | 150714S02 | | | | |
| IB-RW-12-G-S-20150707 | Matrix Spike | Sea Water | ICP/MS 05 | 07/14/15 | 07/14/15 20:31 | 150714S02 | | | | |
| IB-RW-12-G-S-20150707 | Matrix Spike Duplicate | Sea Water | ICP/MS 05 | 07/14/15 | 07/14/15 20:39 | 150714S02 | | | | |
| Parameter | Sample Conc. | Spike Added | MS Conc. | MS %Rec. | MSD Conc. | MSD %Rec. | %Rec. CL | RPD | RPD CL | Qualifiers |
| Cadmium | ND | 0.5000 | 0.6529 | 131 | 0.6488 | 130 | 50-150 | 1 | 0-20 | |
| Chromium | 0.6052 | 5.000 | 9.933 | 187 | 9.865 | 185 | 50-150 | 1 | 0-20 | 3 |
| Copper | 2.366 | 0.5000 | 3.095 | 4X | 3.246 | 4X | 50-150 | 4X | 0-20 | Q |
| Lead | 0.2552 | 0.5000 | 0.7304 | 95 | 0.7560 | 100 | 50-150 | 3 | 0-20 | |
| Zinc | 17.79 | 5.000 | 26.29 | 170 | 27.86 | 201 | 50-150 | 6 | 0-20 | 3 |

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RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - Spike/Spike Duplicate

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 07/07/15
Work Order: 15-07-0323
Preparation: EPA 3510C
Method: EPA 8081A

Project: GWMA - TMDL Compliance Monitoring

Page 4 of 5

| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | MS/MSD Batch Number | | | | |
|---------------------------|------------------------|-------------|------------|---------------|----------------|---------------------|----------|-----|--------|------------|
| IB-RW-12-G-S-20150707 | Sample | Sea Water | GC 44 | 07/13/15 | 07/14/15 13:09 | 150713S01 | | | | |
| IB-RW-12-G-S-20150707 | Matrix Spike | Sea Water | GC 44 | 07/13/15 | 07/14/15 12:41 | 150713S01 | | | | |
| IB-RW-12-G-S-20150707 | Matrix Spike Duplicate | Sea Water | GC 44 | 07/13/15 | 07/14/15 12:55 | 150713S01 | | | | |
| Parameter | Sample Conc. | Spike Added | MS Conc. | MS %Rec. | MSD Conc. | MSD %Rec. | %Rec. CL | RPD | RPD CL | Qualifiers |
| 4,4'-DDD | ND | 50.00 | 42.51 | 85 | 43.06 | 86 | 50-150 | 1 | 0-25 | |
| 4,4'-DDE | ND | 50.00 | 45.02 | 90 | 44.93 | 90 | 50-150 | 0 | 0-25 | |
| 4,4'-DDT | ND | 50.00 | 37.61 | 75 | 33.60 | 67 | 50-150 | 11 | 0-25 | |
| Alpha Chlordane | ND | 50.00 | 38.25 | 76 | 38.13 | 76 | 50-150 | 0 | 0-25 | |
| Dieldrin | ND | 50.00 | 38.96 | 78 | 36.93 | 74 | 50-150 | 5 | 0-25 | |
| Gamma Chlordane | ND | 50.00 | 36.39 | 73 | 34.33 | 69 | 50-150 | 6 | 0-25 | |

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RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - Spike/Spike Duplicate

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 07/07/15
Work Order: 15-07-0323
Preparation: EPA 3510C
Method: EPA 8270C SIM PCB Congeners

Project: GWMA - TMDL Compliance Monitoring

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| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | MS/MSD Batch Number |
|---------------------------|------------------------|-----------|------------|---------------|----------------|---------------------|
| IB-RW-12-G-S-20150707 | Sample | Sea Water | GC/MS HHH | 07/13/15 | 07/14/15 21:43 | 150713S02 |
| IB-RW-12-G-S-20150707 | Matrix Spike | Sea Water | GC/MS HHH | 07/13/15 | 07/15/15 01:23 | 150713S02 |
| IB-RW-12-G-S-20150707 | Matrix Spike Duplicate | Sea Water | GC/MS HHH | 07/13/15 | 07/15/15 01:47 | 150713S02 |

| Parameter | Sample Conc. | Spike Added | MS Conc. | MS %Rec. | MSD Conc. | MSD %Rec. | %Rec. CL | RPD | RPD CL | Qualifiers |
|-----------|--------------|-------------|----------|----------|-----------|-----------|----------|-----|--------|------------|
| PCB018 | ND | 0.5000 | 0.4502 | 90 | 0.4807 | 96 | 50-150 | 7 | 0-25 | |
| PCB028 | ND | 0.5000 | 0.4744 | 95 | 0.5124 | 102 | 50-150 | 8 | 0-25 | |
| PCB044 | ND | 0.5000 | 0.4638 | 93 | 0.4962 | 99 | 50-150 | 7 | 0-25 | |
| PCB052 | ND | 0.5000 | 0.4351 | 87 | 0.4633 | 93 | 50-150 | 6 | 0-25 | |
| PCB066 | ND | 0.5000 | 0.5668 | 113 | 0.6061 | 121 | 50-150 | 7 | 0-25 | |
| PCB077 | ND | 0.5000 | 0.5031 | 101 | 0.5487 | 110 | 50-150 | 9 | 0-25 | |
| PCB101 | ND | 0.5000 | 0.4672 | 93 | 0.5045 | 101 | 50-150 | 8 | 0-25 | |
| PCB105 | ND | 0.5000 | 0.5283 | 106 | 0.5763 | 115 | 50-150 | 9 | 0-25 | |
| PCB118 | ND | 0.5000 | 0.5487 | 110 | 0.5915 | 118 | 50-150 | 8 | 0-25 | |
| PCB126 | ND | 0.5000 | 0.5283 | 106 | 0.5662 | 113 | 50-150 | 7 | 0-25 | |
| PCB128 | ND | 0.5000 | 0.4897 | 98 | 0.5265 | 105 | 50-150 | 7 | 0-25 | |
| PCB170 | ND | 0.5000 | 0.4917 | 98 | 0.5294 | 106 | 50-150 | 7 | 0-25 | |
| PCB180 | ND | 0.5000 | 0.5460 | 109 | 0.5863 | 117 | 50-150 | 7 | 0-25 | |
| PCB187 | ND | 0.5000 | 0.5089 | 102 | 0.5504 | 110 | 50-150 | 8 | 0-25 | |
| PCB195 | ND | 0.5000 | 0.5207 | 104 | 0.5589 | 112 | 50-150 | 7 | 0-25 | |
| PCB206 | ND | 0.5000 | 0.5092 | 102 | 0.5381 | 108 | 50-150 | 6 | 0-25 | |

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RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - Sample Duplicate

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 07/07/15
 Work Order: 15-07-0323
 Preparation: N/A
 Method: SM 2540 D

Project: GWMA - TMDL Compliance Monitoring

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| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | Duplicate Batch Number |
|---------------------------|------------------|-----------|------------|----------------|----------------|------------------------|
| IB-RW-12-G-S-20150707 | Sample | Sea Water | N/A | 07/13/15 00:00 | 07/13/15 19:00 | F0713TSSD1 |
| IB-RW-12-G-S-20150707 | Sample Duplicate | Sea Water | N/A | 07/13/15 00:00 | 07/13/15 19:00 | F0713TSSD1 |

| Parameter | Sample Conc. | DUP Conc. | RPD | RPD CL | Qualifiers |
|-------------------------|--------------|-----------|-----|--------|------------|
| Solids, Total Suspended | ND | ND | N/A | 0-20 | |

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - Sample Duplicate

| | | |
|--|----------------|-------------|
| ANCHOR QEA, LLC | Date Received: | 07/07/15 |
| 27201 Puerta Real, Suite 350 | Work Order: | 15-07-0323 |
| Mission Viejo, CA 92691-8306 | Preparation: | N/A |
| | Method: | SM 2540 D |
| Project: GWMA - TMDL Compliance Monitoring | | Page 2 of 2 |

| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | Duplicate Batch Number |
|---------------------------|------------------|---------------------|------------------|----------------|----------------|------------------------|
| 15-07-0510-2 | Sample | Aqueous | N/A | 07/13/15 00:00 | 07/13/15 19:00 | F0713TSSD2 |
| 15-07-0510-2 | Sample Duplicate | Aqueous | N/A | 07/13/15 00:00 | 07/13/15 19:00 | F0713TSSD2 |
| <u>Parameter</u> | | <u>Sample Conc.</u> | <u>DUP Conc.</u> | <u>RPD</u> | <u>RPD CL</u> | <u>Qualifiers</u> |
| Solids, Total Suspended | | 720.0 | 726.0 | 1 | 0-20 | |

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RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - LCS/LCSD

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 07/07/15
 Work Order: 15-07-0323
 Preparation: N/A
 Method: SM 2540 D

Project: GWMA - TMDL Compliance Monitoring

Page 1 of 8

| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | LCS/LCSD Batch Number |
|---------------------------|------|---------|------------|---------------|----------------|-----------------------|
| 099-09-010-7228 | LCS | Aqueous | N/A | 07/13/15 | 07/13/15 19:00 | F0713TSSL1 |
| 099-09-010-7228 | LCSD | Aqueous | N/A | 07/13/15 | 07/13/15 19:00 | F0713TSSL1 |

| Parameter | Spike Added | LCS Conc. | LCS %Rec. | LCSD Conc. | LCSD %Rec. | %Rec. CL | RPD | RPD CL | Qualifiers |
|-------------------------|-------------|-----------|-----------|------------|------------|----------|-----|--------|------------|
| Solids, Total Suspended | 100.0 | 113.0 | 113 | 117.0 | 117 | 80-120 | 3 | 0-20 | |

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - LCS/LCSD

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 07/07/15
Work Order: 15-07-0323
Preparation: N/A
Method: SM 2540 D

Project: GWMA - TMDL Compliance Monitoring

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| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | LCS/LCSD Batch Number | | | |
|---------------------------|-------------|-----------|------------|---------------|----------------|-----------------------|-----|--------|------------|
| 099-09-010-7242 | LCS | Aqueous | N/A | 07/13/15 | 07/13/15 19:00 | F0713TSSL2 | | | |
| 099-09-010-7242 | LCSD | Aqueous | N/A | 07/13/15 | 07/13/15 19:00 | F0713TSSL2 | | | |
| Parameter | Spike Added | LCS Conc. | LCS %Rec. | LCSD Conc. | LCSD %Rec. | %Rec. CL | RPD | RPD CL | Qualifiers |
| Solids, Total Suspended | 100.0 | 119.0 | 119 | 120.0 | 120 | 80-120 | 1 | 0-20 | |

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - LCS/LCSD

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 07/07/15
Work Order: 15-07-0323
Preparation: EPA 1631E Total
Method: EPA 1631E

Project: GWMA - TMDL Compliance Monitoring

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| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | LCS/LCSD Batch Number | | | |
|---------------------------|-------------|-----------|------------|---------------|----------------|-----------------------|-----|--------|------------|
| 099-15-224-95 | LCS | Aqueous | Hg/AF 1 | 07/16/15 | 07/16/15 00:00 | 150716L03 | | | |
| 099-15-224-95 | LCSD | Aqueous | Hg/AF 1 | 07/16/15 | 07/16/15 00:00 | 150716L03 | | | |
| Parameter | Spike Added | LCS Conc. | LCS %Rec. | LCSD Conc. | LCSD %Rec. | %Rec. CL | RPD | RPD CL | Qualifiers |
| Mercury | 0.02000 | 0.02082 | 104 | 0.02209 | 110 | 71-125 | 6 | 0-20 | |

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RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - LCS/LCSD

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 07/07/15
 Work Order: 15-07-0323
 Preparation: Filtered
 Method: EPA 1631E

Project: GWMA - TMDL Compliance Monitoring

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| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | LCS/LCSD Batch Number |
|---------------------------|------|---------|------------|---------------|----------------|-----------------------|
| 099-15-226-68 | LCS | Aqueous | Hg/AF 1 | 07/16/15 | 07/16/15 00:00 | 150716L03F |
| 099-15-226-68 | LCSD | Aqueous | Hg/AF 1 | 07/16/15 | 07/16/15 00:00 | 150716L03F |

| Parameter | Spike Added | LCS Conc. | LCS %Rec. | LCSD Conc. | LCSD %Rec. | %Rec. CL | RPD | RPD CL | Qualifiers |
|-----------|-------------|-----------|-----------|------------|------------|----------|-----|--------|------------|
| Mercury | 0.02000 | 0.02082 | 104 | 0.02209 | 110 | 71-125 | 6 | 0-20 | |

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RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - LCS/LCSD

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 07/07/15
Work Order: 15-07-0323
Preparation: EPA 3005A Total
Method: EPA 1640

Project: GWMA - TMDL Compliance Monitoring

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| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | LCS/LCSD Batch Number | | | |
|---------------------------|-------------|-----------|------------|---------------|----------------|-----------------------|-----|--------|------------|
| 099-13-067-528 | LCS | Aqueous | ICP/MS 05 | 07/14/15 | 07/14/15 17:36 | 150714L02 | | | |
| 099-13-067-528 | LCSD | Aqueous | ICP/MS 05 | 07/14/15 | 07/14/15 17:44 | 150714L02 | | | |
| Parameter | Spike Added | LCS Conc. | LCS %Rec. | LCSD Conc. | LCSD %Rec. | %Rec. CL | RPD | RPD CL | Qualifiers |
| Cadmium | 0.5000 | 0.5003 | 100 | 0.5179 | 104 | 70-130 | 3 | 0-20 | |
| Chromium | 5.000 | 5.331 | 107 | 5.426 | 109 | 70-130 | 2 | 0-20 | |
| Copper | 0.5000 | 0.5058 | 101 | 0.5133 | 103 | 70-130 | 1 | 0-20 | |
| Lead | 0.5000 | 0.5350 | 107 | 0.5356 | 107 | 70-130 | 0 | 0-20 | |
| Zinc | 5.000 | 5.194 | 104 | 5.279 | 106 | 70-130 | 2 | 0-20 | |


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RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - LCS/LCSD

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 07/07/15
Work Order: 15-07-0323
Preparation: EPA 3005A Filt.
Method: EPA 1640

Project: GWMA - TMDL Compliance Monitoring

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| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | LCS/LCSD Batch Number | | | |
|---------------------------|-------------|-----------|------------|---------------|----------------|-----------------------|-----|--------|------------|
| 099-15-823-162 | LCS | Aqueous | ICP/MS 05 | 07/14/15 | 07/14/15 17:36 | 150714L02F | | | |
| 099-15-823-162 | LCSD | Aqueous | ICP/MS 05 | 07/14/15 | 07/14/15 17:44 | 150714L02F | | | |
| Parameter | Spike Added | LCS Conc. | LCS %Rec. | LCSD Conc. | LCSD %Rec. | %Rec. CL | RPD | RPD CL | Qualifiers |
| Cadmium | 0.5000 | 0.5003 | 100 | 0.5179 | 104 | 70-130 | 3 | 0-20 | |
| Chromium | 5.000 | 5.331 | 107 | 5.426 | 109 | 70-130 | 2 | 0-20 | |
| Copper | 0.5000 | 0.5058 | 101 | 0.5133 | 103 | 70-130 | 1 | 0-20 | |
| Lead | 0.5000 | 0.5350 | 107 | 0.5356 | 107 | 70-130 | 0 | 0-20 | |
| Zinc | 5.000 | 5.194 | 104 | 5.279 | 106 | 70-130 | 2 | 0-20 | |


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RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - LCS/LCSD

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 07/07/15
Work Order: 15-07-0323
Preparation: EPA 3510C
Method: EPA 8081A

Project: GWMA - TMDL Compliance Monitoring

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| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | LCS/LCSD Batch Number | | | |
|---------------------------|-------------|-----------|------------|---------------|----------------|-----------------------|-----|--------|------------|
| 099-16-036-22 | LCS | Aqueous | GC 44 | 07/13/15 | 07/15/15 17:43 | 150713L01 | | | |
| 099-16-036-22 | LCSD | Aqueous | GC 44 | 07/13/15 | 07/14/15 11:36 | 150713L01 | | | |
| Parameter | Spike Added | LCS Conc. | LCS %Rec. | LCSD Conc. | LCSD %Rec. | %Rec. CL | RPD | RPD CL | Qualifiers |
| 4,4'-DDD | 50.00 | 51.77 | 104 | 48.41 | 97 | 50-150 | 7 | 0-25 | |
| 4,4'-DDE | 50.00 | 58.24 | 116 | 51.60 | 103 | 50-150 | 12 | 0-25 | |
| 4,4'-DDT | 50.00 | 53.94 | 108 | 42.08 | 84 | 50-150 | 25 | 0-25 | |
| Alpha Chlordane | 50.00 | 50.89 | 102 | 45.17 | 90 | 50-150 | 12 | 0-25 | |
| Dieldrin | 50.00 | 53.53 | 107 | 47.15 | 94 | 50-150 | 13 | 0-25 | |
| Gamma Chlordane | 50.00 | 49.21 | 98 | 43.61 | 87 | 50-150 | 12 | 0-25 | |


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RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - LCS/LCSD

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 07/07/15
Work Order: 15-07-0323
Preparation: EPA 3510C
Method: EPA 8270C SIM PCB Congeners

Project: GWMA - TMDL Compliance Monitoring

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| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | LCS/LCSD Batch Number | | | | |
|---------------------------|-------------|-----------|------------|---------------|----------------|-----------------------|--------|-----|--------|------------|
| 099-16-414-46 | LCS | Aqueous | GC/MS HHH | 07/13/15 | 07/14/15 17:59 | 150713L02 | | | | |
| 099-16-414-46 | LCSD | Aqueous | GC/MS HHH | 07/13/15 | 07/14/15 18:24 | 150713L02 | | | | |
| Parameter | Spike Added | LCS Conc. | LCS %Rec. | LCSD Conc. | LCSD %Rec. | %Rec. CL | ME CL | RPD | RPD CL | Qualifiers |
| PCB018 | 0.5000 | 0.4762 | 95 | 0.4797 | 96 | 50-150 | 33-167 | 1 | 0-25 | |
| PCB028 | 0.5000 | 0.5015 | 100 | 0.5064 | 101 | 50-150 | 33-167 | 1 | 0-25 | |
| PCB044 | 0.5000 | 0.4869 | 97 | 0.4976 | 100 | 50-150 | 33-167 | 2 | 0-25 | |
| PCB052 | 0.5000 | 0.4543 | 91 | 0.4644 | 93 | 50-150 | 33-167 | 2 | 0-25 | |
| PCB066 | 0.5000 | 0.5915 | 118 | 0.6030 | 121 | 50-150 | 33-167 | 2 | 0-25 | |
| PCB077 | 0.5000 | 0.5276 | 106 | 0.5386 | 108 | 50-150 | 33-167 | 2 | 0-25 | |
| PCB101 | 0.5000 | 0.4895 | 98 | 0.5052 | 101 | 50-150 | 33-167 | 3 | 0-25 | |
| PCB105 | 0.5000 | 0.5521 | 110 | 0.5627 | 113 | 50-150 | 33-167 | 2 | 0-25 | |
| PCB118 | 0.5000 | 0.5758 | 115 | 0.5953 | 119 | 50-150 | 33-167 | 3 | 0-25 | |
| PCB126 | 0.5000 | 0.5434 | 109 | 0.5607 | 112 | 50-150 | 33-167 | 3 | 0-25 | |
| PCB128 | 0.5000 | 0.5245 | 105 | 0.5318 | 106 | 50-150 | 33-167 | 1 | 0-25 | |
| PCB170 | 0.5000 | 0.5236 | 105 | 0.5267 | 105 | 50-150 | 33-167 | 1 | 0-25 | |
| PCB180 | 0.5000 | 0.5723 | 114 | 0.5892 | 118 | 50-150 | 33-167 | 3 | 0-25 | |
| PCB187 | 0.5000 | 0.5462 | 109 | 0.5635 | 113 | 50-150 | 33-167 | 3 | 0-25 | |
| PCB195 | 0.5000 | 0.5467 | 109 | 0.5585 | 112 | 50-150 | 33-167 | 2 | 0-25 | |
| PCB206 | 0.5000 | 0.5222 | 104 | 0.5473 | 109 | 50-150 | 33-167 | 5 | 0-25 | |

Total number of LCS compounds: 16

Total number of ME compounds: 0

Total number of ME compounds allowed: 1

LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

Glossary of Terms and Qualifiers

Work Order: 15-07-0323

Page 1 of 1

| <u>Qualifiers</u> | <u>Definition</u> |
|-------------------|---|
| * | See applicable analysis comment. |
| < | Less than the indicated value. |
| > | Greater than the indicated value. |
| 1 | Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification. |
| 2 | Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification. |
| 3 | Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control. |
| 4 | The MS/MSD RPD was out of control due to suspected matrix interference. |
| 5 | The PDS/PDS or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference. |
| 6 | Surrogate recovery below the acceptance limit. |
| 7 | Surrogate recovery above the acceptance limit. |
| B | Analyte was present in the associated method blank. |
| BU | Sample analyzed after holding time expired. |
| BV | Sample received after holding time expired. |
| CI | See case narrative. |
| E | Concentration exceeds the calibration range. |
| ET | Sample was extracted past end of recommended max. holding time. |
| HD | The chromatographic pattern was inconsistent with the profile of the reference fuel standard. |
| HDH | The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected). |
| HDL | The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected). |
| J | Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated. |
| JA | Analyte positively identified but quantitation is an estimate. |
| ME | LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean). |
| ND | Parameter not detected at the indicated reporting limit. |
| Q | Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater. |
| SG | The sample extract was subjected to Silica Gel treatment prior to analysis. |
| X | % Recovery and/or RPD out-of-range. |
| Z | Analyte presence was not confirmed by second column or GC/MS analysis. |
| | Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis. |
| | Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time. |
| | A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations. |

Chain of Custody Record & Laboratory Analysis Request

Laboratory Number:

Test Parameters

Date: 7-7-2015

Project Name: GWMA-TMDL Compliance Monitoring

Project Number: 141205-01.01

Project Manager: Andy Martin

Phone Number: (949) 334-9630

Shipment Method: Courier



15-07-0323

| Line | Field Sample ID | Collection Date/Time | Matrix | No. of Containers | Test Parameters | | | | | | | | | | | Comments/Preservation | | | |
|------|-----------------------|----------------------|--------|-------------------|-----------------|----------------------------|-----------------------------|---------------------------|---------------|---|--|--|--|--|--|-----------------------|--|-------------------|--|
| | | | | | TSS | Total and dissolved metals | Total and dissolved mercury | Organochlorine pesticides | PCB Congeners | | | | | | | | | | |
| 1 | 1B-RW-12-G-M-20150707 | 7.7.15 / 0930 | Water | 1 | X | | | | | | | | | | | | | | |
| 2 | 1B-RW-12-G-B-20150707 | 7.7.15 / 0930 | | 1 | X | | | | | | | | | | | | | | |
| 3 | 1B-RW-12-G-S-20150707 | 7.7.15 / 0930 | | 8 | X | X | X | X | X | X | | | | | | | | | |
| 4 | 1B-RW-13-G-S-20150707 | 7.7.15 / 1035 | 9 | 8 | X | X | X | X | X | X | | | | | | | | TSS Lab duplicate | |
| 5 | 1B-RW-13-G-M-20150707 | 7.7.15 / 1035 | | 1 | X | | | | | | | | | | | | | | |
| 6 | 1B-RW-13-G-B-20150707 | 7.7.15 / 1035 | | 1 | X | | | | | | | | | | | | | | |
| 7 | 1B-RW-14-G-S-20150707 | 7.7.15 / 1116 | | 8 | X | X | X | X | X | X | | | | | | | | | |
| 8 | 1B-RW-14-G-M-20150707 | 7.7.15 / 1121 | | 1 | X | | | | | | | | | | | | | | |
| 9 | 1B-RW-14-G-B-20150707 | 7.7.15 / 1121 | | 1 | X | | | | | | | | | | | | | | |
| 10 | 0A-RW-09-G-S-20150707 | 7.7.15 / 1214 | | 8 | X | X | X | X | X | X | | | | | | | | | |
| 11 | 0A-RW-09-G-M-20150707 | 7.7.15 / 1216 | | 1 | X | | | | | | | | | | | | | | |
| 12 | 0A-RW-09-G-B-20150707 | 7.7.15 / 1214 | | 1 | X | | | | | | | | | | | | | | |
| 13 | CB-RW-11-G-S-20150707 | 7.7.15 / 1252 | | 8 | X | X | X | X | X | X | | | | | | | | | |
| 14 | CB-RW-11-G-M-20150707 | 7.7.15 / 1253 | | 1 | X | | | | | | | | | | | | | | |
| 15 | CB-RW-11-G-B-20150707 | 7.7.15 / 1253 | | 1 | X | | | | | | | | | | | | | | |

Notes:

Relinquished By: Bernie Mc Signature/Printed Name
 Company: Anchor OEA
 Date/Time: 7.7.15 / 11:40

Received By: Jessica Precy Soriano Signature/Printed Name
 Company: EG
 Date/Time: 7/7/15

Relinquished By: _____ Signature/Printed Name
 Company: _____
 Date/Time: _____

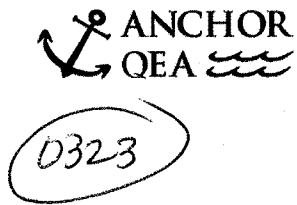
Received By: _____ Signature/Printed Name
 Company: _____
 Date/Time: _____

Distribution: A copy will be made for the laboratory and client The Project file will retain the original.



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Chain of Cust: Record & Laboratory Analysis Request

| | | |
|---|-----------------|---|
| Laboratory Number: _____ Date: <u>7-7-2015</u> Project Name: GWMA-TMDL Compliance Monitoring Project Number: 141205-01.01 Project Manager: Andy Martin Phone Number: (949) 334-9630 Shipment Method: Courier | Test Parameters |  |
|---|-----------------|---|

| Line | Field Sample ID | Collection Date/Time | Matrix | No. of Containers | TSS | Total and dissolved metals | Total and dissolved mercury | Organochlorine pesticides | PCB Congeners | Comments/Preservation |
|--|--------------------------|----------------------|--------|-------------------|-----|----------------------------|-----------------------------|---------------------------|---------------|-----------------------|
| 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 | 1 CM-RW-10-G-S-20150707 | 7.7.15/1340 | water | 8 | X | X | X | X | X | |
| | 2 CM-RW-10-G-M-20150707 | 7.7.15/1343 | | 1 | X | | | | | |
| | 3 CM-RW-10-G-B-20150707 | 7.7.15/1344 | | 1 | X | | | | | |
| | 4 BA-RW-08-G-S-20150707 | 7.7.15/1420 | | 8 | X | X | X | X | X | |
| | 5 OA-RW-08-G-M-20150707 | 7.7.15/1420 | | 1 | X | | | | | |
| | 6 OA-RW-08-G-B-20150707 | 7.7.15/1420 | | 1 | X | | | | | |
| | 7 OB-RW-16-G-S-20150707 | 7.7.15/1446 | | 8 | X | X | X | X | X | |
| | 8 OB-RW-16-G-M-20150707 | 7.7.15/1446 | | 2 | X | | | | | Field duplicate |
| | 9 OB-RW-16-G-B-20150707 | 7.7.15/1446 | | 1 | X | | | | | |
| | 10 IB-RW-15-G-S-20150707 | 7.7.15/1515 | | 8 | X | X | X | X | X | |
| | 11 IB-RW-15-G-M-20150707 | 7.7.15/1515 | | 1 | X | | | | | |
| | 12 IB-RW-15-G-B-20150707 | 7.7.15/1515 | | 1 | X | | | | | |
| | 13 IB-RW-12-G-S-20150707 | 7.7.15/0930 | | 7 | X | X | X | X | X | MSP/MSD |
| | 14 IB-RW-12-G-S-20150707 | 7.7.15/0930 | ✓ | 3 | X | X | X | X | X | Replicate @ 7/7/15 |
| | 15 | | | | | | | | | |

Notes:

| | |
|-----------------------------------|--------------------------------|
| Relinquished By: <u>Bonnie Ah</u> | Company: <u>Anchor QEA</u> |
| Signature/Printed Name | Date/Time: <u>7.7.15 540pm</u> |

| | |
|--|--------------------------|
| Received By: <u>Maria PREY SORIANO</u> | Company: <u>EA</u> |
| Signature/Printed Name | Date/Time: <u>7/7/15</u> |

| | |
|------------------------|------------------|
| Relinquished By: _____ | Company: _____ |
| Signature/Printed Name | Date/Time: _____ |

| | |
|------------------------|------------------|
| Received By: _____ | Company: _____ |
| Signature/Printed Name | Date/Time: _____ |

SAMPLE RECEIPT CHECKLIST

COOLER 1 OF 6

CLIENT: Anchor BEA

DATE: 07/07/2015

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC5 (CF:-0.2°C); Temperature (w/o CF): 4.0 °C (w/ CF): 3.8 °C; Blank Sample

Sample(s) outside temperature criteria (PM/APM contacted by: _____)

Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: Air Filter

Checked by: 300

CUSTODY SEAL:

Cooler Present and Intact Present but Not Intact Not Present N/A

Checked by: 300

Sample(s) Present and Intact Present but Not Intact Not Present N/A

Checked by: 1017

SAMPLE CONDITION:

Chain-of-Custody (COC) document(s) received with samples Yes No N/A

COC document(s) received complete Yes No N/A

Sampling date Sampling time Matrix Number of containers

No analysis requested Not relinquished No relinquished date No relinquished time

Sampler's name indicated on COC Yes No N/A

Sample container label(s) consistent with COC Yes No N/A

Sample container(s) intact and in good condition Yes No N/A

Proper containers for analyses requested Yes No N/A

Sufficient volume/mass for analyses requested Yes No N/A

Samples received within holding time Yes No N/A

Aqueous samples for certain analyses received within 15-minute holding time

pH Residual Chlorine Dissolved Sulfide Dissolved Oxygen Yes No N/A

Proper preservation chemical(s) noted on COC and/or sample container Yes No N/A

Unpreserved aqueous sample(s) received for certain analyses

Volatile Organics Total Metals Dissolved Metals

Container(s) for certain analysis free of headspace Yes No N/A

Volatile Organics Dissolved Gases (RSK-175) Dissolved Oxygen (SM 4500)

Carbon Dioxide (SM 4500) Ferrous Iron (SM 3500) Hydrogen Sulfide (Hach)

Tedlar™ bag(s) free of condensation Yes No N/A

CONTAINER TYPE:

(Trip Blank Lot Number: _____)

Aqueous: VOA VOA_h VOA_{na2} 100PJ 100PJ_{na2} 125AGB 125AGB_h 125AGB_p 125PB

125PB_{z^{na}} 250AGB 250CGB 250CGB_s 250PB 250PB_n 500AGB 500AGJ 500AGJ_s

500PB 1AGB 1AGB_{na2} 1AGB_s 1PB 1PB_{na} _____ _____ _____ _____

Solid: 4ozCGJ 8ozCGJ 16ozCGJ Sleeve (_____) EnCores® (_____) TerraCores® (_____) _____

Air: Tedlar™ Canister Sorbent Tube PUF _____ Other Matrix (____): _____ _____

Container: A = Amber, B = Bottle, C = Clear, E = Envelope, G = Glass, J = Jar, P = Plastic, and Z = Ziploc/Resealable Bag

Preservative: b = buffered, f = filtered, h = HCl, n = HNO₃, na = NaOH, na₂ = Na₂S₂O₃, p = H₃PO₄, Labeled/Checked by: 1017

s = H₂SO₄, u = ultra-pure, z_{na} = Zn(CH₃CO₂)₂ + NaOH

Reviewed by: 862

SAMPLE RECEIPT CHECKLIST

COOLER 2 OF 6

CLIENT: Anchor QEA

DATE: 07 / 07 / 2015

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC5 (CF:-0.2°C); Temperature (w/o CF): 26 °C (w/ CF): 2.4 °C; Blank Sample

Sample(s) outside temperature criteria (PM/APM contacted by: _____)

Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: Air Filter

Checked by: 300

CUSTODY SEAL:

Cooler Present and Intact Present but Not Intact Not Present N/A

Checked by: 300

Sample(s) Present and Intact Present but Not Intact Not Present N/A

Checked by: 1017

SAMPLE CONDITION:

Chain-of-Custody (COC) document(s) received with samples Yes No N/A

COC document(s) received complete Yes No N/A

Sampling date Sampling time Matrix Number of containers

No analysis requested Not relinquished No relinquished date No relinquished time

Sampler's name indicated on COC Yes No N/A

Sample container label(s) consistent with COC Yes No N/A

Sample container(s) intact and in good condition Yes No N/A

Proper containers for analyses requested Yes No N/A

Sufficient volume/mass for analyses requested Yes No N/A

Samples received within holding time Yes No N/A

Aqueous samples for certain analyses received within 15-minute holding time

pH Residual Chlorine Dissolved Sulfide Dissolved Oxygen Yes No N/A

Proper preservation chemical(s) noted on COC and/or sample container Yes No N/A

Unpreserved aqueous sample(s) received for certain analyses

Volatile Organics Total Metals Dissolved Metals

Container(s) for certain analysis free of headspace Yes No N/A

Volatile Organics Dissolved Gases (RSK-175) Dissolved Oxygen (SM 4500)

Carbon Dioxide (SM 4500) Ferrous Iron (SM 3500) Hydrogen Sulfide (Hach)

Tedlar™ bag(s) free of condensation Yes No N/A

CONTAINER TYPE:

(Trip Blank Lot Number: _____)

Aqueous: VOA VOAh VOAna₂ 100PJ 100PJna₂ 125AGB 125AGBh 125AGBp 125PB

125PBzanna 250AGB 250CGB 250CGBs 250PB 250PBn 500AGB 500AGJ 500AGJs

500PB 1AGB 1AGBna₂ 1AGBs 1PB 1PBna _____ _____ _____

Solid: 4ozCGJ 8ozCGJ 16ozCGJ Sleeve (_____) EnCores® (_____) TerraCores® (_____) _____

Air: Tedlar™ Canister Sorbent Tube PUF _____ Other Matrix (____): _____ _____

Container: A = Amber, B = Bottle, C = Clear, E = Envelope, G = Glass, J = Jar, P = Plastic, and Z = Ziploc/Resealable Bag

Preservative: b = buffered, f = filtered, h = HCl, n = HNO₃, na = NaOH, na₂ = Na₂S₂O₃, p = H₃PO₄, Labeled/Checked by: 1017

s = H₂SO₄, u = ultra-pure, zanna = Zn(CH₃CO₂)₂ + NaOH

Reviewed by: 802

SAMPLE RECEIPT CHECKLIST

COOLER 3 OF 6

CLIENT: Anchor BEA

DATE: 07 / 07 / 2015

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC5 (CF:-0.2°C); Temperature (w/o CF): 3.3 °C (w/ CF): 3.1 °C; Blank Sample

Sample(s) outside temperature criteria (PM/APM contacted by: _____)

Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: Air Filter

Checked by: 300

CUSTODY SEAL:

Cooler Present and Intact Present but Not Intact Not Present N/A

Checked by: 300

Sample(s) Present and Intact Present but Not Intact Not Present N/A

Checked by: 1017

SAMPLE CONDITION:

Chain-of-Custody (COC) document(s) received with samples Yes No N/A

COC document(s) received complete Yes No N/A

Sampling date Sampling time Matrix Number of containers

No analysis requested Not relinquished No relinquished date No relinquished time

Sampler's name indicated on COC Yes No N/A

Sample container label(s) consistent with COC Yes No N/A

Sample container(s) intact and in good condition Yes No N/A

Proper containers for analyses requested Yes No N/A

Sufficient volume/mass for analyses requested Yes No N/A

Samples received within holding time Yes No N/A

Aqueous samples for certain analyses received within 15-minute holding time

pH Residual Chlorine Dissolved Sulfide Dissolved Oxygen Yes No N/A

Proper preservation chemical(s) noted on COC and/or sample container Yes No N/A

Unpreserved aqueous sample(s) received for certain analyses

Volatile Organics Total Metals Dissolved Metals

Container(s) for certain analysis free of headspace Yes No N/A

Volatile Organics Dissolved Gases (RSK-175) Dissolved Oxygen (SM 4500)

Carbon Dioxide (SM 4500) Ferrous Iron (SM 3500) Hydrogen Sulfide (Hach)

Tedlar™ bag(s) free of condensation Yes No N/A

CONTAINER TYPE:

(Trip Blank Lot Number: _____)

Aqueous: VOA VOAh VOAna₂ 100PJ 100PJna₂ 125AGB 125AGBh 125AGBp 125PB

125PBz_{na} 250AGB 250CGB 250CGBs 250PB 250PBn 500AGB 500AGJ 500AGJs

500PB 1AGB 1AGBna₂ 1AGBs 1PB 1PBna _____ _____ _____

Solid: 4ozCGJ 8ozCGJ 16ozCGJ Sleeve (_____) EnCores® (_____) TerraCores® (_____) _____

Air: Tedlar™ Canister Sorbent Tube PUF _____ Other Matrix (____): _____ _____

Container: A = Amber, B = Bottle, C = Clear, E = Envelope, G = Glass, J = Jar, P = Plastic, and Z = Ziploc/Resealable Bag

Preservative: b = buffered, f = filtered, h = HCl, n = HNO₃, na = NaOH, na₂ = Na₂S₂O₃, p = H₃PO₄, Labeled/Checked by: 1017

s = H₂SO₄, u = ultra-pure, z_{na} = Zn(CH₃CO₂)₂ + NaOH Reviewed by: 802

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SAMPLE RECEIPT CHECKLIST

COOLER 4 OF 6

CLIENT: Anchor BEA

DATE: 07/07/2015

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)
 Thermometer ID: SC5 (CF:-0.2°C); Temperature (w/o CF): 4.6 °C (w/ CF): 4.4 °C; Blank Sample
 Sample(s) outside temperature criteria (PM/APM contacted by: _____)
 Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling
 Sample(s) received at ambient temperature; placed on ice for transport by courier
 Ambient Temperature: Air Filter
 Checked by: 300

CUSTODY SEAL:
 Cooler Present and Intact Present but Not Intact Not Present N/A
 Sample(s) Present and Intact Present but Not Intact Not Present N/A
 Checked by: 300
 Checked by: 1017

| SAMPLE CONDITION: | Yes | No | N/A |
|--|-------------------------------------|--------------------------|-------------------------------------|
| Chain-of-Custody (COC) document(s) received with samples | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| COC document(s) received complete | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> Sampling date <input type="checkbox"/> Sampling time <input type="checkbox"/> Matrix <input type="checkbox"/> Number of containers | | | |
| <input type="checkbox"/> No analysis requested <input type="checkbox"/> Not relinquished <input type="checkbox"/> No relinquished date <input type="checkbox"/> No relinquished time | | | |
| Sampler's name indicated on COC | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Sample container label(s) consistent with COC | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Sample container(s) intact and in good condition | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Proper containers for analyses requested | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Sufficient volume/mass for analyses requested | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Samples received within holding time | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Aqueous samples for certain analyses received within 15-minute holding time | | | |
| <input type="checkbox"/> pH <input type="checkbox"/> Residual Chlorine <input type="checkbox"/> Dissolved Sulfide <input type="checkbox"/> Dissolved Oxygen | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Proper preservation chemical(s) noted on COC and/or sample container | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Unpreserved aqueous sample(s) received for certain analyses | | | |
| <input type="checkbox"/> Volatile Organics <input type="checkbox"/> Total Metals <input type="checkbox"/> Dissolved Metals | | | |
| Container(s) for certain analysis free of headspace | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> Volatile Organics <input type="checkbox"/> Dissolved Gases (RSK-175) <input type="checkbox"/> Dissolved Oxygen (SM 4500) | | | |
| <input type="checkbox"/> Carbon Dioxide (SM 4500) <input type="checkbox"/> Ferrous Iron (SM 3500) <input type="checkbox"/> Hydrogen Sulfide (Hach) | | | |
| Tedlar™ bag(s) free of condensation | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

CONTAINER TYPE: (Trip Blank Lot Number: _____)
Aqueous: VOA VOAh VOAna₂ 100PJ 100PJna₂ 125AGB 125AGBh 125AGBp 125PB
 125PBz_{na} 250AGB 250CGB 250CGBs 250PB 250PBn 500AGB 500AGJ 500AGJs
 500PB 1AGB 1AGBna₂ 1AGBs 1PB 1PBna _____ _____ _____
Solid: 4ozCGJ 8ozCGJ 16ozCGJ Sleeve (_____) EnCores® (_____) TerraCores® (_____) _____
Air: Tedlar™ Canister Sorbent Tube PUF _____ **Other Matrix** (____): _____ _____
 Container: A = Amber, B = Bottle, C = Clear, E = Envelope, G = Glass, J = Jar, P = Plastic, and Z = Ziploc/Resealable Bag
 Preservative: b = buffered, f = filtered, h = HCl, n = HNO₃, na = NaOH, na₂ = Na₂S₂O₃, p = H₃PO₄, Labeled/Checked by: 1017
 s = H₂SO₄, u = ultra-pure, z_{na} = Zn(CH₃CO₂)₂ + NaOH Reviewed by: 862

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SAMPLE RECEIPT CHECKLIST

COOLER 5 OF 6

CLIENT: Anchor BEA

DATE: 07/07/2015

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC5 (CF:-0.2°C); Temperature (w/o CF): 4.5 °C (w/ CF): 4.3 °C; Blank Sample

Sample(s) outside temperature criteria (PM/APM contacted by: _____)

Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: Air Filter

Checked by: 300

CUSTODY SEAL:

Cooler Present and Intact Present but Not Intact Not Present N/A

Sample(s) Present and Intact Present but Not Intact Not Present N/A

Checked by: 300

Checked by: 1017

SAMPLE CONDITION:

| | Yes | No | N/A |
|--|-------------------------------------|--------------------------|-------------------------------------|
| Chain-of-Custody (COC) document(s) received with samples | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| COC document(s) received complete | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> Sampling date <input type="checkbox"/> Sampling time <input type="checkbox"/> Matrix <input type="checkbox"/> Number of containers | | | |
| <input type="checkbox"/> No analysis requested <input type="checkbox"/> Not relinquished <input type="checkbox"/> No relinquished date <input type="checkbox"/> No relinquished time | | | |
| Sampler's name indicated on COC | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Sample container label(s) consistent with COC | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Sample container(s) intact and in good condition | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Proper containers for analyses requested | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Sufficient volume/mass for analyses requested | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Samples received within holding time | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Aqueous samples for certain analyses received within 15-minute holding time | | | |
| <input type="checkbox"/> pH <input type="checkbox"/> Residual Chlorine <input type="checkbox"/> Dissolved Sulfide <input type="checkbox"/> Dissolved Oxygen | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Proper preservation chemical(s) noted on COC and/or sample container | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Unpreserved aqueous sample(s) received for certain analyses | | | |
| <input type="checkbox"/> Volatile Organics <input type="checkbox"/> Total Metals <input type="checkbox"/> Dissolved Metals | | | |
| Container(s) for certain analysis free of headspace | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> Volatile Organics <input type="checkbox"/> Dissolved Gases (RSK-175) <input type="checkbox"/> Dissolved Oxygen (SM 4500) | | | |
| <input type="checkbox"/> Carbon Dioxide (SM 4500) <input type="checkbox"/> Ferrous Iron (SM 3500) <input type="checkbox"/> Hydrogen Sulfide (Hach) | | | |
| Tedlar™ bag(s) free of condensation | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

CONTAINER TYPE: (Trip Blank Lot Number: _____)

Aqueous: VOA VOA_h VOA_{na2} 100PJ 100PJ_{na2} 125AGB 125AGB_h 125AGB_p 125PB

125PB_{z_{na}} 250AGB 250CGB 250CGB_s 250PB 250PB_n 500AGB 500AGJ 500AGJ_s

500PB 1AGB 1AGB_{na2} 1AGB_s 1PB 1PB_{na} _____ _____ _____ _____

Solid: 4ozCGJ 8ozCGJ 16ozCGJ Sleeve (_____) EnCores® (_____) TerraCores® (_____) _____

Air: Tedlar™ Canister Sorbent Tube PUF _____ **Other Matrix** (____): _____ _____

Container: A = Amber, B = Bottle, C = Clear, E = Envelope, G = Glass, J = Jar, P = Plastic, and Z = Ziploc/Resealable Bag

Preservative: b = buffered, f = filtered, h = HCl, n = HNO₃, na = NaOH, na₂ = Na₂S₂O₃, p = H₃PO₄, Labeled/Checked by: 1017

s = H₂SO₄, u = ultra-pure, z_{na} = Zn(CH₃CO₂)₂ + NaOH Reviewed by: 300

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SAMPLE RECEIPT CHECKLIST

COOLER 6 OF 6

CLIENT: Anchor BEA

DATE: 07/07/2015

TEMPERATURE: (Criteria: 0.0°C - 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC5 (CF:-0.2°C); Temperature (w/o CF): 3.7 °C (w/ CF): 3.5 °C; Blank Sample

Sample(s) outside temperature criteria (PM/APM contacted by: _____)

Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: Air Filter

Checked by: 300

CUSTODY SEAL:

Cooler Present and Intact Present but Not Intact Not Present N/A

Checked by: 300

Sample(s) Present and Intact Present but Not Intact Not Present N/A

Checked by: 1017

SAMPLE CONDITION:

Chain-of-Custody (COC) document(s) received with samples Yes No N/A

COC document(s) received complete Yes No N/A

Sampling date Sampling time Matrix Number of containers

No analysis requested Not relinquished No relinquished date No relinquished time

Sampler's name indicated on COC Yes No N/A

Sample container label(s) consistent with COC Yes No N/A

Sample container(s) intact and in good condition Yes No N/A

Proper containers for analyses requested Yes No N/A

Sufficient volume/mass for analyses requested Yes No N/A

Samples received within holding time Yes No N/A

Aqueous samples for certain analyses received within 15-minute holding time

pH Residual Chlorine Dissolved Sulfide Dissolved Oxygen Yes No N/A

Proper preservation chemical(s) noted on COC and/or sample container Yes No N/A

Unpreserved aqueous sample(s) received for certain analyses

Volatile Organics Total Metals Dissolved Metals

Container(s) for certain analysis free of headspace Yes No N/A

Volatile Organics Dissolved Gases (RSK-175) Dissolved Oxygen (SM 4500)

Carbon Dioxide (SM 4500) Ferrous Iron (SM 3500) Hydrogen Sulfide (Hach)

Tedlar™ bag(s) free of condensation Yes No N/A

CONTAINER TYPE:

(Trip Blank Lot Number: _____)

Aqueous: VOA VOA_h VOA_{na2} 100PJ 100PJ_{na2} 125AGB 125AGB_h 125AGB_p 125PB

125PB_{z_{na}} 250AGB 250CGB 250CGB_s 250PB 250PB_n 500AGB 500AG_J 500AG_J_s

500PB 1AGB 1AGB_{na2} 1AGB_s 1PB 1PB_{na} _____ _____ _____ _____

Solid: 4ozCGJ 8ozCGJ 16ozCGJ Sleeve (_____) EnCores® (_____) TerraCores® (_____) _____

Air: Tedlar™ Canister Sorbent Tube PUF _____ Other Matrix (_____): _____ _____

Container: A = Amber, B = Bottle, C = Clear, E = Envelope, G = Glass, J = Jar, P = Plastic, and Z = Ziploc/Resealable Bag

Preservative: b = buffered, f = filtered, h = HCl, n = HNO₃, na = NaOH, na₂ = Na₂S₂O₃, p = H₃PO₄, Labeled/Checked by: 1017

s = H₂SO₄, u = ultra-pure, z_{na} = Zn(CH₃CO₂)₂ + NaOH

Reviewed by: 802

Return to Contents



SAMPLE ANOMALY REPORT

DATE: 07 / 07 / 2015

SAMPLES, CONTAINERS, AND LABELS:

- Sample(s) NOT RECEIVED but listed on COC
- Sample(s) received but NOT LISTED on COC
- Holding time expired (list client or ECI sample ID and analysis)
- Insufficient sample amount for requested analysis (list analysis)
- Improper container(s) used (list analysis)
- Improper preservative used (list analysis)
- No preservative noted on COC or label (list analysis and notify lab)
- Sample container(s) not labeled
- Client sample label(s) illegible (list container type and analysis)
- Client sample label(s) do not match COC (comment)
 - Project information
 - Client sample ID
 - Sampling date and/or time
 - Number of container(s)
 - Requested analysis
- Sample container(s) compromised (comment)
 - Broken
 - Water present in sample container
- Air sample container(s) compromised (comment)
 - Flat
 - Very low in volume
 - Leaking (not transferred; duplicate bag submitted)
 - Leaking (transferred into ECI Tedlar™ bags*)
 - Leaking (transferred into client's Tedlar™ bags*)

* Transferred at client's request.

MISCELLANEOUS: (Describe)

HEADSPACE:

(Containers with bubble > 6 mm or ¼ inch for volatile organic or dissolved gas analysis)

| ECI Sample ID | ECI Container ID | Total Number** | ECI Sample ID | ECI Container ID | Total Number** |
|---------------|------------------|----------------|---------------|------------------|----------------|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

Comments

(-4) Received 1-1 Liter Plastic Bottle for TSS labeled as IB-RW-13-S-6S-20150707 DATE 07/07/15 TIME 10:35

Comments

(Containers with bubble for other analysis)

| ECI Sample ID | ECI Container ID | Total Number** | Requested Analysis |
|---------------|------------------|----------------|--------------------|
| | | | |
| | | | |
| | | | |
| | | | |

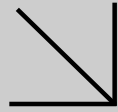
Comments: _____

** Record the total number of containers (i.e., vials or bottles) for the affected sample.

Reported by: 1017
Reviewed by: [signature]



Calscience



WORK ORDER NUMBER: 15-07-0298

The difference is service



AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: ANCHOR QEA, LLC

Client Project Name: GWMA - TMDL Compliance Monitoring

Attention: Andy Martin
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Approved for release on 07/22/2015 by:
Danielle Gonsman
Project Manager

ResultLink ▶

Email your PM ▶



Eurofins Calscience, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

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 Work Order Number: 15-07-0298

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Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 07/07/15. They were assigned to Work Order 15-07-0298.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of ≤ 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.



Calscience

Sample Summary

| | |
|------------------------------|---|
| Client: ANCHOR QEA, LLC | Work Order: 15-07-0298 |
| 27201 Puerta Real, Suite 350 | Project Name: GWMA - TMDL Compliance Monitoring |
| Mission Viejo, CA 92691-8306 | PO Number: |
| | Date/Time Received: 07/07/15 17:35 |
| | Number of Containers: 83 |

Attn: Andy Martin

| Sample Identification | Lab Number | Collection Date and Time | Number of Containers | Matrix |
|-------------------------|---------------|--------------------------|----------------------|-----------|
| CS-RW-01-G-S-20150707 | 15-07-0298-1 | 07/07/15 09:55 | 8 | Sea Water |
| CS-RW-01-G-M-20150707 | 15-07-0298-2 | 07/07/15 10:10 | 1 | Sea Water |
| CS-RW-01-G-B-20150707 | 15-07-0298-3 | 07/07/15 10:15 | 1 | Sea Water |
| IA-RW-02-G-S-20150707 | 15-07-0298-4 | 07/07/15 10:30 | 8 | Sea Water |
| IA-RW-02-G-M-20150707 | 15-07-0298-5 | 07/07/15 10:35 | 1 | Sea Water |
| IA-RW-02-G-B-20150707 | 15-07-0298-6 | 07/07/15 10:40 | 1 | Sea Water |
| IA-RW-03-G-S-20150707 | 15-07-0298-7 | 07/07/15 11:22 | 8 | Sea Water |
| IA-RW-03-G-M-20150707 | 15-07-0298-8 | 07/07/15 11:27 | 1 | Sea Water |
| IA-RW-03-G-B-20150707 | 15-07-0298-9 | 07/07/15 11:30 | 1 | Sea Water |
| IA-RW-04-G-S-20150707 | 15-07-0298-10 | 07/07/15 12:00 | 8 | Sea Water |
| IA-RW-04-G-M-20150707 | 15-07-0298-11 | 07/07/15 12:10 | 1 | Sea Water |
| IA-RW-04-G-B-20150707 | 15-07-0298-12 | 07/07/15 12:15 | 1 | Sea Water |
| IA-RW-05-G-S-20150707 | 15-07-0298-13 | 07/07/15 14:50 | 8 | Sea Water |
| IA-RW-05-G-M-20150707 | 15-07-0298-14 | 07/07/15 14:58 | 1 | Sea Water |
| IA-RW-05-G-B-20150707 | 15-07-0298-15 | 07/07/15 15:05 | 1 | Sea Water |
| IA-RW-1002-G-S-20150707 | 15-07-0298-16 | 07/07/15 10:30 | 8 | Sea Water |
| IA-RW-06-G-S-20150707 | 15-07-0298-17 | 07/07/15 14:15 | 8 | Sea Water |
| IA-RW-06-G-M-20150707 | 15-07-0298-18 | 07/07/15 14:20 | 1 | Sea Water |
| IA-RW-06-G-B-20150707 | 15-07-0298-19 | 07/07/15 14:25 | 1 | Sea Water |
| FB-20150707 | 15-07-0298-20 | 07/07/15 13:05 | 1 | Sea Water |
| FB-20150707 | 15-07-0298-21 | 07/07/15 13:05 | 1 | Sea Water |
| FB-20150707 | 15-07-0298-22 | 07/07/15 13:05 | 1 | Sea Water |
| FB-20150707 | 15-07-0298-23 | 07/07/15 13:05 | 1 | Sea Water |
| FH-RW-07-G-S-20150707 | 15-07-0298-24 | 07/07/15 14:50 | 8 | Sea Water |
| FH-RW-07-G-M-20150707 | 15-07-0298-25 | 07/07/15 14:58 | 1 | Sea Water |
| FH-RW-07-G-B-20150707 | 15-07-0298-26 | 07/07/15 15:05 | 1 | Sea Water |
| IA-RW-06-G-M-20150707 | 15-07-0298-27 | 07/07/15 14:20 | 1 | Sea Water |



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Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 07/07/15
Work Order: 15-07-0298
Preparation: N/A
Method: SM 2540 D
Units: mg/L

Project: GWMA - TMDL Compliance Monitoring

Page 1 of 5

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| CS-RW-01-G-S-20150707 | 15-07-0298-1-H | 07/07/15 09:55 | Sea Water | N/A | 07/10/15 | 07/10/15 20:00 | F0710TSSL2 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 1.2 | 1.0 | 0.83 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| CS-RW-01-G-M-20150707 | 15-07-0298-2-A | 07/07/15 10:10 | Sea Water | N/A | 07/10/15 | 07/10/15 20:00 | F0710TSSL2 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 6.4 | 1.0 | 0.83 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| CS-RW-01-G-B-20150707 | 15-07-0298-3-A | 07/07/15 10:15 | Sea Water | N/A | 07/10/15 | 07/10/15 20:00 | F0710TSSL2 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 5.3 | 1.0 | 0.83 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-02-G-S-20150707 | 15-07-0298-4-H | 07/07/15 10:30 | Sea Water | N/A | 07/10/15 | 07/10/15 20:00 | F0710TSSL2 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | ND | 1.0 | 0.83 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-02-G-M-20150707 | 15-07-0298-5-A | 07/07/15 10:35 | Sea Water | N/A | 07/10/15 | 07/10/15 20:00 | F0710TSSL3 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 1.2 | 1.0 | 0.83 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-02-G-B-20150707 | 15-07-0298-6-A | 07/07/15 10:40 | Sea Water | N/A | 07/10/15 | 07/10/15 20:00 | F0710TSSL3 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 3.5 | 1.0 | 0.83 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 07/07/15
Work Order: 15-07-0298
Preparation: N/A
Method: SM 2540 D
Units: mg/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-03-G-S-20150707 | 15-07-0298-7-H | 07/07/15 11:22 | Sea Water | N/A | 07/10/15 | 07/10/15 20:00 | F0710TSSL3 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 1.1 | 1.0 | 0.83 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-03-G-M-20150707 | 15-07-0298-8-A | 07/07/15 11:27 | Sea Water | N/A | 07/10/15 | 07/10/15 20:00 | F0710TSSL3 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | ND | 1.0 | 0.83 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-03-G-B-20150707 | 15-07-0298-9-A | 07/07/15 11:30 | Sea Water | N/A | 07/10/15 | 07/10/15 20:00 | F0710TSSL3 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | ND | 1.0 | 0.83 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-04-G-S-20150707 | 15-07-0298-10-H | 07/07/15 12:00 | Sea Water | N/A | 07/10/15 | 07/10/15 20:00 | F0710TSSL3 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | ND | 1.0 | 0.83 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-04-G-M-20150707 | 15-07-0298-11-A | 07/07/15 12:10 | Sea Water | N/A | 07/10/15 | 07/10/15 20:00 | F0710TSSL3 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 3.7 | 1.0 | 0.83 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-04-G-B-20150707 | 15-07-0298-12-H | 07/07/15 12:15 | Sea Water | N/A | 07/10/15 | 07/10/15 20:00 | F0710TSSL3 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 3.3 | 1.0 | 0.83 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 07/07/15
Work Order: 15-07-0298
Preparation: N/A
Method: SM 2540 D
Units: mg/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-05-G-S-20150707 | 15-07-0298-13-H | 07/07/15 14:50 | Sea Water | N/A | 07/10/15 | 07/10/15 20:00 | F0710TSSL3 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | ND | 1.0 | 0.83 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-05-G-M-20150707 | 15-07-0298-14-A | 07/07/15 14:58 | Sea Water | N/A | 07/10/15 | 07/10/15 20:00 | F0710TSSL3 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | ND | 1.0 | 0.83 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-05-G-B-20150707 | 15-07-0298-15-A | 07/07/15 15:05 | Sea Water | N/A | 07/10/15 | 07/10/15 20:00 | F0710TSSL3 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | ND | 1.0 | 0.83 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-------------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-1002-G-S-20150707 | 15-07-0298-16-H | 07/07/15 10:30 | Sea Water | N/A | 07/10/15 | 07/10/15 20:00 | F0710TSSL3 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | ND | 1.0 | 0.83 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-06-G-S-20150707 | 15-07-0298-17-H | 07/07/15 14:15 | Sea Water | N/A | 07/10/15 | 07/10/15 20:00 | F0710TSSL3 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 1.2 | 1.0 | 0.83 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-06-G-M-20150707 | 15-07-0298-18-A | 07/07/15 14:20 | Sea Water | N/A | 07/10/15 | 07/10/15 20:00 | F0710TSSL3 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | ND | 1.0 | 0.83 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 07/07/15
Work Order: 15-07-0298
Preparation: N/A
Method: SM 2540 D
Units: mg/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-06-G-B-20150707 | 15-07-0298-19-A | 07/07/15 14:25 | Sea Water | N/A | 07/10/15 | 07/10/15 20:00 | F0710TSSL3 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 2.0 | 1.0 | 0.83 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| FH-RW-07-G-S-20150707 | 15-07-0298-24-H | 07/07/15 14:50 | Sea Water | N/A | 07/10/15 | 07/10/15 20:00 | F0710TSSL3 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 1.5 | 1.0 | 0.83 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| FH-RW-07-G-M-20150707 | 15-07-0298-25-A | 07/07/15 14:58 | Sea Water | N/A | 07/10/15 | 07/10/15 20:00 | F0710TSSL3 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 1.8 | 1.0 | 0.83 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| FH-RW-07-G-B-20150707 | 15-07-0298-26-A | 07/07/15 15:05 | Sea Water | N/A | 07/10/15 | 07/10/15 20:00 | F0710TSSL3 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 4.1 | 1.0 | 0.83 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-06-G-M-20150707 | 15-07-0298-27-A | 07/07/15 14:20 | Sea Water | N/A | 07/10/15 | 07/10/15 20:00 | F0710TSSL3 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | ND | 1.0 | 0.83 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|---------|------------|---------------|--------------------|-------------|
| Method Blank | 099-09-010-7225 | N/A | Aqueous | N/A | 07/10/15 | 07/10/15 20:00 | F0710TSSL2 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | ND | 1.0 | 0.83 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 07/07/15
 Work Order: 15-07-0298
 Preparation: N/A
 Method: SM 2540 D
 Units: mg/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|------------------------|---------------------|----------------|------------|-----------------|---------------------------|-------------------|
| Method Blank | 099-09-010-7231 | N/A | Aqueous | N/A | 07/10/15 | 07/10/15 20:00 | F0710TSSL3 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|-------------------------|---------------|-----------|------------|-----------|-------------------|
| Solids, Total Suspended | ND | 1.0 | 0.83 | 1.00 | |

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 07/07/15
Work Order: 15-07-0298
Preparation: EPA 1631E Total
Method: EPA 1631E
Units: ng/L

Project: GWMA - TMDL Compliance Monitoring

Page 1 of 2

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| CS-RW-01-G-S-20150707 | 15-07-0298-1-B | 07/07/15 09:55 | Sea Water | Hg/AF 1 | 07/16/15 | 07/16/15 00:00 | 150716L02 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|-------|-------|------|------------|
| Mercury | 0.968 | 0.500 | 0.113 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-02-G-S-20150707 | 15-07-0298-4-A | 07/07/15 10:30 | Sea Water | Hg/AF 1 | 07/16/15 | 07/16/15 00:00 | 150716L02 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|-------|-------|------|------------|
| Mercury | 1.04 | 0.500 | 0.113 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-03-G-S-20150707 | 15-07-0298-7-A | 07/07/15 11:22 | Sea Water | Hg/AF 1 | 07/16/15 | 07/16/15 00:00 | 150716L02 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|-------|-------|------|------------|
| Mercury | 0.828 | 0.500 | 0.113 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-04-G-S-20150707 | 15-07-0298-10-B | 07/07/15 12:00 | Sea Water | Hg/AF 1 | 07/16/15 | 07/16/15 00:00 | 150716L02 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|-------|-------|------|------------|
| Mercury | 1.68 | 0.500 | 0.113 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-05-G-S-20150707 | 15-07-0298-13-B | 07/07/15 14:50 | Sea Water | Hg/AF 1 | 07/16/15 | 07/16/15 00:00 | 150716L02 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|-------|-------|------|------------|
| Mercury | 1.30 | 0.500 | 0.113 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-------------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-1002-G-S-20150707 | 15-07-0298-16-B | 07/07/15 10:30 | Sea Water | Hg/AF 1 | 07/16/15 | 07/16/15 00:00 | 150716L02 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|-------|-------|------|------------|
| Mercury | 1.48 | 0.500 | 0.113 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 07/07/15
Work Order: 15-07-0298
Preparation: EPA 1631E Total
Method: EPA 1631E
Units: ng/L

Project: GWMA - TMDL Compliance Monitoring

Page 2 of 2

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-06-G-S-20150707 | 15-07-0298-17-B | 07/07/15 14:15 | Sea Water | Hg/AF 1 | 07/16/15 | 07/16/15 00:00 | 150716L02 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|-------|-------|------|------------|
| Mercury | 1.53 | 0.500 | 0.113 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| FB-20150707 | 15-07-0298-21-A | 07/07/15 13:05 | Sea Water | Hg/AF 1 | 07/16/15 | 07/16/15 00:00 | 150716L02 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|-------|-------|------|------------|
| Mercury | ND | 0.500 | 0.113 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| FH-RW-07-G-S-20150707 | 15-07-0298-24-B | 07/07/15 14:50 | Sea Water | Hg/AF 1 | 07/16/15 | 07/16/15 00:00 | 150716L02 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|-------|-------|------|------------|
| Mercury | 3.82 | 0.500 | 0.113 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|---------|------------|---------------|--------------------|-------------|
| Method Blank | 099-15-224-94 | N/A | Aqueous | Hg/AF 1 | 07/16/15 | 07/16/15 00:00 | 150716L02 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|-------|-------|------|------------|
| Mercury | ND | 0.500 | 0.113 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 07/07/15
Work Order: 15-07-0298
Preparation: Filtered
Method: EPA 1631E
Units: ng/L

Project: GWMA - TMDL Compliance Monitoring

Page 1 of 2

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| CS-RW-01-G-S-20150707 | 15-07-0298-1-A | 07/07/15 09:55 | Sea Water | Hg/AF 1 | 07/16/15 | 07/16/15 00:00 | 150716L02F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|-------|-------|------|------------|
| Mercury | 0.441 | 0.500 | 0.113 | 1.00 | J |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-02-G-S-20150707 | 15-07-0298-4-B | 07/07/15 10:30 | Sea Water | Hg/AF 1 | 07/16/15 | 07/16/15 00:00 | 150716L02F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|-------|-------|------|------------|
| Mercury | 0.596 | 0.500 | 0.113 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-03-G-S-20150707 | 15-07-0298-7-B | 07/07/15 11:22 | Sea Water | Hg/AF 1 | 07/16/15 | 07/16/15 00:00 | 150716L02F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|-------|-------|------|------------|
| Mercury | 0.266 | 0.500 | 0.113 | 1.00 | J |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-04-G-S-20150707 | 15-07-0298-10-A | 07/07/15 12:00 | Sea Water | Hg/AF 1 | 07/16/15 | 07/16/15 00:00 | 150716L02F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|-------|-------|------|------------|
| Mercury | 0.854 | 0.500 | 0.113 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-05-G-S-20150707 | 15-07-0298-13-A | 07/07/15 14:50 | Sea Water | Hg/AF 1 | 07/16/15 | 07/16/15 00:00 | 150716L02F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|-------|-------|------|------------|
| Mercury | 0.460 | 0.500 | 0.113 | 1.00 | J |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-------------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-1002-G-S-20150707 | 15-07-0298-16-A | 07/07/15 10:30 | Sea Water | Hg/AF 1 | 07/16/15 | 07/16/15 00:00 | 150716L02F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|-------|-------|------|------------|
| Mercury | ND | 0.500 | 0.113 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 07/07/15
Work Order: 15-07-0298
Preparation: Filtered
Method: EPA 1631E
Units: ng/L

Project: GWMA - TMDL Compliance Monitoring

Page 2 of 2

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-06-G-S-20150707 | 15-07-0298-17-A | 07/07/15 14:15 | Sea Water | Hg/AF 1 | 07/16/15 | 07/16/15 00:00 | 150716L02F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|-------|-------|------|------------|
| Mercury | 0.301 | 0.500 | 0.113 | 1.00 | J |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| FB-20150707 | 15-07-0298-20-A | 07/07/15 13:05 | Sea Water | Hg/AF 1 | 07/16/15 | 07/16/15 00:00 | 150716L02F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|-------|-------|------|------------|
| Mercury | ND | 0.500 | 0.113 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| FH-RW-07-G-S-20150707 | 15-07-0298-24-A | 07/07/15 14:50 | Sea Water | Hg/AF 1 | 07/16/15 | 07/16/15 00:00 | 150716L02F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|-------|-------|------|------------|
| Mercury | 0.794 | 0.500 | 0.113 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|---------|------------|---------------|--------------------|-------------|
| Method Blank | 099-15-226-67 | N/A | Aqueous | Hg/AF 1 | 07/16/15 | 07/16/15 00:00 | 150716L02F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|-------|-------|------|------------|
| Mercury | ND | 0.500 | 0.113 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 07/07/15
Work Order: 15-07-0298
Preparation: EPA 3005A Total
Method: EPA 1640
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

Page 1 of 4

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| CS-RW-01-G-S-20150707 | 15-07-0298-1-D | 07/07/15 09:55 | Sea Water | ICP/MS 05 | 07/14/15 | 07/16/15 16:47 | 150714L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0474 | 0.0300 | 0.00567 | 1.00 | |
| Chromium | 0.612 | 0.500 | 0.164 | 1.00 | |
| Copper | 4.46 | 0.0300 | 0.00898 | 1.00 | |
| Lead | 0.459 | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 14.2 | 0.500 | 0.0736 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-02-G-S-20150707 | 15-07-0298-4-C | 07/07/15 10:30 | Sea Water | ICP/MS 05 | 07/14/15 | 07/16/15 16:55 | 150714L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0363 | 0.0300 | 0.00567 | 1.00 | |
| Chromium | 0.504 | 0.500 | 0.164 | 1.00 | |
| Copper | 2.70 | 0.0300 | 0.00898 | 1.00 | |
| Lead | 0.236 | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 8.16 | 0.500 | 0.0736 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-03-G-S-20150707 | 15-07-0298-7-C | 07/07/15 11:22 | Sea Water | ICP/MS 05 | 07/14/15 | 07/16/15 17:03 | 150714L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0244 | 0.0300 | 0.00567 | 1.00 | J |
| Chromium | 0.392 | 0.500 | 0.164 | 1.00 | J |
| Copper | 1.94 | 0.0300 | 0.00898 | 1.00 | |
| Lead | 0.0913 | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 5.01 | 0.500 | 0.0736 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 07/07/15
Work Order: 15-07-0298
Preparation: EPA 3005A Total
Method: EPA 1640
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-04-G-S-20150707 | 15-07-0298-10-D | 07/07/15 12:00 | Sea Water | ICP/MS 05 | 07/14/15 | 07/16/15 17:11 | 150714L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0229 | 0.0300 | 0.00567 | 1.00 | J |
| Chromium | 0.476 | 0.500 | 0.164 | 1.00 | J |
| Copper | 2.15 | 0.0300 | 0.00898 | 1.00 | |
| Lead | 0.463 | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 4.35 | 0.500 | 0.0736 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-05-G-S-20150707 | 15-07-0298-13-C | 07/07/15 14:50 | Sea Water | ICP/MS 05 | 07/14/15 | 07/16/15 17:19 | 150714L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0180 | 0.0300 | 0.00567 | 1.00 | J |
| Chromium | 0.439 | 0.500 | 0.164 | 1.00 | J |
| Copper | 1.34 | 0.0300 | 0.00898 | 1.00 | |
| Lead | 0.0804 | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 3.45 | 0.500 | 0.0736 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-------------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-1002-G-S-20150707 | 15-07-0298-16-C | 07/07/15 10:30 | Sea Water | ICP/MS 05 | 07/14/15 | 07/16/15 17:27 | 150714L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0287 | 0.0300 | 0.00567 | 1.00 | J |
| Chromium | 0.451 | 0.500 | 0.164 | 1.00 | J |
| Copper | 2.32 | 0.0300 | 0.00898 | 1.00 | |
| Lead | 0.173 | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 6.76 | 0.500 | 0.0736 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 07/07/15
Work Order: 15-07-0298
Preparation: EPA 3005A Total
Method: EPA 1640
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

Page 3 of 4

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-06-G-S-20150707 | 15-07-0298-17-D | 07/07/15 14:15 | Sea Water | ICP/MS 05 | 07/14/15 | 07/16/15 17:35 | 150714L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0217 | 0.0300 | 0.00567 | 1.00 | J |
| Chromium | 0.501 | 0.500 | 0.164 | 1.00 | |
| Copper | 1.62 | 0.0300 | 0.00898 | 1.00 | |
| Lead | 0.188 | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 4.55 | 0.500 | 0.0736 | 1.00 | |

| | | | | | | | |
|-------------|-----------------|-------------------|-----------|-----------|----------|-------------------|-----------|
| FB-20150707 | 15-07-0298-22-A | 07/07/15 13:05 | Sea Water | ICP/MS 05 | 07/14/15 | 07/16/15 17:43 | 150714L01 |
|-------------|-----------------|-------------------|-----------|-----------|----------|-------------------|-----------|

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | ND | 0.0300 | 0.00567 | 1.00 | |
| Chromium | ND | 0.500 | 0.164 | 1.00 | |
| Lead | ND | 0.0300 | 0.0135 | 1.00 | |

| | | | | | | | |
|-------------|-----------------|-------------------|-----------|-----------|----------|-------------------|-----------|
| FB-20150707 | 15-07-0298-22-A | 07/07/15 13:05 | Sea Water | ICP/MS 05 | 07/14/15 | 07/20/15 21:27 | 150714L01 |
|-------------|-----------------|-------------------|-----------|-----------|----------|-------------------|-----------|

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Copper | 0.478 | 0.0300 | 0.00898 | 1.00 | |
| Zinc | 0.183 | 0.500 | 0.0736 | 1.00 | J |

| | | | | | | | |
|-----------------------|-----------------|-------------------|-----------|-----------|----------|-------------------|-----------|
| FH-RW-07-G-S-20150707 | 15-07-0298-24-C | 07/07/15 14:50 | Sea Water | ICP/MS 05 | 07/14/15 | 07/16/15 17:51 | 150714L01 |
|-----------------------|-----------------|-------------------|-----------|-----------|----------|-------------------|-----------|

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0309 | 0.0300 | 0.00567 | 1.00 | |
| Chromium | 0.478 | 0.500 | 0.164 | 1.00 | J |
| Copper | 5.09 | 0.0300 | 0.00898 | 1.00 | |
| Lead | 0.269 | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 12.3 | 0.500 | 0.0736 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 07/07/15
 Work Order: 15-07-0298
 Preparation: EPA 3005A Total
 Method: EPA 1640
 Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

Page 4 of 4

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|---------|------------|---------------|--------------------|-------------|
| Method Blank | 099-13-067-525 | N/A | Aqueous | ICP/MS 05 | 07/14/15 | 07/14/15 17:04 | 150714L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|---------------|-----------|------------|-----------|-------------------|
| Cadmium | ND | 0.0300 | 0.00567 | 1.00 | |
| Chromium | ND | 0.500 | 0.164 | 1.00 | |
| Copper | ND | 0.0300 | 0.00898 | 1.00 | |
| Lead | ND | 0.0300 | 0.0135 | 1.00 | |
| Zinc | ND | 0.500 | 0.0736 | 1.00 | |


 Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 07/07/15
Work Order: 15-07-0298
Preparation: EPA 3005A Filt.
Method: EPA 1640
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

Page 1 of 4

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| CS-RW-01-G-S-20150707 | 15-07-0298-1-C | 07/07/15 09:55 | Sea Water | ICP/MS 05 | 07/14/15 | 07/16/15 15:04 | 150714L01A |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0352 | 0.0300 | 0.00567 | 1.00 | |
| Chromium | 0.362 | 0.500 | 0.164 | 1.00 | J |
| Copper | 3.02 | 0.0300 | 0.00898 | 1.00 | |
| Lead | 0.0723 | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 15.0 | 0.500 | 0.0736 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-02-G-S-20150707 | 15-07-0298-4-D | 07/07/15 10:30 | Sea Water | ICP/MS 05 | 07/14/15 | 07/16/15 15:12 | 150714L01A |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0314 | 0.0300 | 0.00567 | 1.00 | |
| Chromium | 0.318 | 0.500 | 0.164 | 1.00 | J |
| Lead | 0.0360 | 0.0300 | 0.0135 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-02-G-S-20150707 | 15-07-0298-4-D | 07/07/15 10:30 | Sea Water | ICP/MS 05 | 07/14/15 | 07/20/15 21:43 | 150714L01A |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Copper | 0.129 | 0.0300 | 0.00898 | 1.00 | |
| Zinc | 0.459 | 0.500 | 0.0736 | 1.00 | J |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-03-G-S-20150707 | 15-07-0298-7-D | 07/07/15 11:22 | Sea Water | ICP/MS 05 | 07/14/15 | 07/16/15 15:20 | 150714L01A |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0264 | 0.0300 | 0.00567 | 1.00 | J |
| Chromium | 0.309 | 0.500 | 0.164 | 1.00 | J |
| Lead | 0.0310 | 0.0300 | 0.0135 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-03-G-S-20150707 | 15-07-0298-7-D | 07/07/15 11:22 | Sea Water | ICP/MS 05 | 07/14/15 | 07/20/15 21:51 | 150714L01A |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Copper | 0.910 | 0.0300 | 0.00898 | 1.00 | |
| Zinc | 1.32 | 0.500 | 0.0736 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 07/07/15
Work Order: 15-07-0298
Preparation: EPA 3005A Filt.
Method: EPA 1640
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

Page 2 of 4

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-04-G-S-20150707 | 15-07-0298-10-C | 07/07/15 12:00 | Sea Water | ICP/MS 05 | 07/14/15 | 07/16/15 15:28 | 150714L01A |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0214 | 0.0300 | 0.00567 | 1.00 | J |
| Chromium | 0.297 | 0.500 | 0.164 | 1.00 | J |
| Lead | ND | 0.0300 | 0.0135 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-04-G-S-20150707 | 15-07-0298-10-C | 07/07/15 12:00 | Sea Water | ICP/MS 05 | 07/14/15 | 07/20/15 21:59 | 150714L01A |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Copper | 1.20 | 0.0300 | 0.00898 | 1.00 | |
| Zinc | 0.943 | 0.500 | 0.0736 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-05-G-S-20150707 | 15-07-0298-13-D | 07/07/15 14:50 | Sea Water | ICP/MS 05 | 07/14/15 | 07/16/15 15:36 | 150714L01A |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0170 | 0.0300 | 0.00567 | 1.00 | J |
| Chromium | 0.310 | 0.500 | 0.164 | 1.00 | J |
| Lead | ND | 0.0300 | 0.0135 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-05-G-S-20150707 | 15-07-0298-13-D | 07/07/15 14:50 | Sea Water | ICP/MS 05 | 07/14/15 | 07/20/15 22:07 | 150714L01A |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Copper | 0.761 | 0.0300 | 0.00898 | 1.00 | |
| Zinc | 1.28 | 0.500 | 0.0736 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-------------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-1002-G-S-20150707 | 15-07-0298-16-D | 07/07/15 10:30 | Sea Water | ICP/MS 05 | 07/14/15 | 07/16/15 15:44 | 150714L01A |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0230 | 0.0300 | 0.00567 | 1.00 | J |
| Chromium | 0.318 | 0.500 | 0.164 | 1.00 | J |
| Lead | 0.0149 | 0.0300 | 0.0135 | 1.00 | J |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 07/07/15
Work Order: 15-07-0298
Preparation: EPA 3005A Filt.
Method: EPA 1640
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-------------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-1002-G-S-20150707 | 15-07-0298-16-D | 07/07/15 10:30 | Sea Water | ICP/MS 05 | 07/14/15 | 07/20/15 22:15 | 150714L01A |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Copper | 1.37 | 0.0300 | 0.00898 | 1.00 | |
| Zinc | 4.37 | 0.500 | 0.0736 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-06-G-S-20150707 | 15-07-0298-17-C | 07/07/15 14:15 | Sea Water | ICP/MS 05 | 07/14/15 | 07/16/15 15:52 | 150714L01A |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0189 | 0.0300 | 0.00567 | 1.00 | J |
| Chromium | 0.316 | 0.500 | 0.164 | 1.00 | J |
| Lead | ND | 0.0300 | 0.0135 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-06-G-S-20150707 | 15-07-0298-17-C | 07/07/15 14:15 | Sea Water | ICP/MS 05 | 07/14/15 | 07/20/15 22:23 | 150714L01A |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Copper | 0.854 | 0.0300 | 0.00898 | 1.00 | |
| Zinc | 1.84 | 0.500 | 0.0736 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| FB-20150707 | 15-07-0298-23-A | 07/07/15 13:05 | Sea Water | ICP/MS 05 | 07/14/15 | 07/16/15 16:00 | 150714L01A |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | ND | 0.0300 | 0.00567 | 1.00 | |
| Chromium | ND | 0.500 | 0.164 | 1.00 | |
| Lead | ND | 0.0300 | 0.0135 | 1.00 | |
| Zinc | ND | 0.500 | 0.0736 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| FB-20150707 | 15-07-0298-23-A | 07/07/15 13:05 | Sea Water | ICP/MS 05 | 07/14/15 | 07/20/15 21:35 | 150714L01A |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Copper | 0.493 | 0.0300 | 0.00898 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

| | | |
|------------------------------|----------------|-----------------|
| ANCHOR QEA, LLC | Date Received: | 07/07/15 |
| 27201 Puerta Real, Suite 350 | Work Order: | 15-07-0298 |
| Mission Viejo, CA 92691-8306 | Preparation: | EPA 3005A Filt. |
| | Method: | EPA 1640 |
| | Units: | ug/L |

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| FH-RW-07-G-S-20150707 | 15-07-0298-24-D | 07/07/15 14:50 | Sea Water | ICP/MS 05 | 07/14/15 | 07/16/15 16:08 | 150714L01A |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0283 | 0.0300 | 0.00567 | 1.00 | J |
| Chromium | 0.277 | 0.500 | 0.164 | 1.00 | J |
| Copper | 2.64 | 0.0300 | 0.00898 | 1.00 | |
| Lead | 0.0242 | 0.0300 | 0.0135 | 1.00 | J |
| Zinc | 12.8 | 0.500 | 0.0736 | 1.00 | |

| Method Blank | 099-15-823-161 | N/A | Aqueous | ICP/MS 05 | 07/14/15 | 07/14/15 17:04 | 150714L01A |
|--------------|----------------|-----|---------|-----------|----------|-------------------|------------|
|--------------|----------------|-----|---------|-----------|----------|-------------------|------------|

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | ND | 0.0300 | 0.00567 | 1.00 | |
| Chromium | ND | 0.500 | 0.164 | 1.00 | |
| Copper | ND | 0.0300 | 0.00898 | 1.00 | |
| Lead | ND | 0.0300 | 0.0135 | 1.00 | |
| Zinc | ND | 0.500 | 0.0736 | 1.00 | |

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 07/07/15
 Work Order: 15-07-0298
 Preparation: EPA 3510C
 Method: EPA 8081A
 Units: ng/L

Project: GWMA - TMDL Compliance Monitoring

Page 1 of 9

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| CS-RW-01-G-S-20150707 | 15-07-0298-1-F | 07/07/15 09:55 | Sea Water | GC 44 | 07/13/15 | 07/15/15 15:48 | 150713L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------------------------|----------|----------------|------------|------|------------|
| 2,4'-DDD | ND | 2.0 | 0.58 | 1.00 | |
| 2,4'-DDE | ND | 2.0 | 0.49 | 1.00 | |
| 2,4'-DDT | ND | 2.0 | 0.69 | 1.00 | |
| 4,4'-DDD | ND | 2.0 | 0.55 | 1.00 | |
| 4,4'-DDE | ND | 2.0 | 0.48 | 1.00 | |
| 4,4'-DDT | ND | 2.0 | 0.55 | 1.00 | |
| Alpha Chlordane | ND | 2.0 | 0.49 | 1.00 | |
| Cis-nonachlor | ND | 2.0 | 0.50 | 1.00 | |
| Dieldrin | ND | 2.0 | 0.55 | 1.00 | |
| Gamma Chlordane | ND | 2.0 | 0.49 | 1.00 | |
| Oxychlordane | ND | 2.0 | 0.63 | 1.00 | |
| Toxaphene | ND | 25 | 8.2 | 1.00 | |
| Trans-nonachlor | ND | 2.0 | 0.56 | 1.00 | |
| Surrogate | Rec. (%) | Control Limits | Qualifiers | | |
| Decachlorobiphenyl | 77 | 50-150 | | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 98 | 50-150 | | | |



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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 07/07/15
Work Order: 15-07-0298
Preparation: EPA 3510C
Method: EPA 8081A
Units: ng/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-02-G-S-20150707 | 15-07-0298-4-F | 07/07/15 10:30 | Sea Water | GC 44 | 07/13/15 | 07/15/15 16:02 | 150713L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------------------------|----------|----------------|------------|------|------------|
| 2,4'-DDD | ND | 2.0 | 0.58 | 1.00 | |
| 2,4'-DDE | ND | 2.0 | 0.49 | 1.00 | |
| 2,4'-DDT | ND | 2.0 | 0.69 | 1.00 | |
| 4,4'-DDD | ND | 2.0 | 0.55 | 1.00 | |
| 4,4'-DDE | ND | 2.0 | 0.48 | 1.00 | |
| 4,4'-DDT | ND | 2.0 | 0.55 | 1.00 | |
| Alpha Chlordane | ND | 2.0 | 0.49 | 1.00 | |
| Cis-nonachlor | ND | 2.0 | 0.50 | 1.00 | |
| Dieldrin | ND | 2.0 | 0.55 | 1.00 | |
| Gamma Chlordane | ND | 2.0 | 0.49 | 1.00 | |
| Oxychlordane | ND | 2.0 | 0.63 | 1.00 | |
| Toxaphene | ND | 25 | 8.2 | 1.00 | |
| Trans-nonachlor | ND | 2.0 | 0.56 | 1.00 | |
| Surrogate | Rec. (%) | Control Limits | Qualifiers | | |
| Decachlorobiphenyl | 80 | 50-150 | | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 94 | 50-150 | | | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 07/07/15
Work Order: 15-07-0298
Preparation: EPA 3510C
Method: EPA 8081A
Units: ng/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-03-G-S-20150707 | 15-07-0298-7-E | 07/07/15 11:22 | Sea Water | GC 44 | 07/13/15 | 07/15/15 16:17 | 150713L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------------------------|----------|----------------|------------|------|------------|
| 2,4'-DDD | ND | 2.0 | 0.58 | 1.00 | |
| 2,4'-DDE | ND | 2.0 | 0.49 | 1.00 | |
| 2,4'-DDT | ND | 2.0 | 0.69 | 1.00 | |
| 4,4'-DDD | ND | 2.0 | 0.55 | 1.00 | |
| 4,4'-DDE | ND | 2.0 | 0.48 | 1.00 | |
| 4,4'-DDT | ND | 2.0 | 0.55 | 1.00 | |
| Alpha Chlordane | ND | 2.0 | 0.49 | 1.00 | |
| Cis-nonachlor | ND | 2.0 | 0.50 | 1.00 | |
| Dieldrin | ND | 2.0 | 0.55 | 1.00 | |
| Gamma Chlordane | ND | 2.0 | 0.49 | 1.00 | |
| Oxychlordane | ND | 2.0 | 0.63 | 1.00 | |
| Toxaphene | ND | 25 | 8.2 | 1.00 | |
| Trans-nonachlor | ND | 2.0 | 0.56 | 1.00 | |
| Surrogate | Rec. (%) | Control Limits | Qualifiers | | |
| Decachlorobiphenyl | 85 | 50-150 | | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 100 | 50-150 | | | |

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 07/07/15
Work Order: 15-07-0298
Preparation: EPA 3510C
Method: EPA 8081A
Units: ng/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-04-G-S-20150707 | 15-07-0298-10-F | 07/07/15 12:00 | Sea Water | GC 44 | 07/13/15 | 07/15/15 16:31 | 150713L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------------------------|----------|----------------|------------|------|------------|
| 2,4'-DDD | ND | 2.0 | 0.58 | 1.00 | |
| 2,4'-DDE | ND | 2.0 | 0.49 | 1.00 | |
| 2,4'-DDT | ND | 2.0 | 0.69 | 1.00 | |
| 4,4'-DDD | ND | 2.0 | 0.55 | 1.00 | |
| 4,4'-DDE | ND | 2.0 | 0.48 | 1.00 | |
| 4,4'-DDT | ND | 2.0 | 0.55 | 1.00 | |
| Alpha Chlordane | ND | 2.0 | 0.49 | 1.00 | |
| Cis-nonachlor | ND | 2.0 | 0.50 | 1.00 | |
| Dieldrin | ND | 2.0 | 0.55 | 1.00 | |
| Gamma Chlordane | ND | 2.0 | 0.49 | 1.00 | |
| Oxychlordane | ND | 2.0 | 0.63 | 1.00 | |
| Toxaphene | ND | 25 | 8.2 | 1.00 | |
| Trans-nonachlor | ND | 2.0 | 0.56 | 1.00 | |
| Surrogate | Rec. (%) | Control Limits | Qualifiers | | |
| Decachlorobiphenyl | 98 | 50-150 | | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 114 | 50-150 | | | |

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 07/07/15
Work Order: 15-07-0298
Preparation: EPA 3510C
Method: EPA 8081A
Units: ng/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-05-G-S-20150707 | 15-07-0298-13-F | 07/07/15 14:50 | Sea Water | GC 44 | 07/13/15 | 07/15/15 16:45 | 150713L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------------------------|----------|----------------|------------|------|------------|
| 2,4'-DDD | ND | 2.0 | 0.58 | 1.00 | |
| 2,4'-DDE | ND | 2.0 | 0.49 | 1.00 | |
| 2,4'-DDT | ND | 2.0 | 0.69 | 1.00 | |
| 4,4'-DDD | ND | 2.0 | 0.55 | 1.00 | |
| 4,4'-DDE | ND | 2.0 | 0.48 | 1.00 | |
| 4,4'-DDT | ND | 2.0 | 0.55 | 1.00 | |
| Alpha Chlordane | ND | 2.0 | 0.49 | 1.00 | |
| Cis-nonachlor | ND | 2.0 | 0.50 | 1.00 | |
| Dieldrin | ND | 2.0 | 0.55 | 1.00 | |
| Gamma Chlordane | ND | 2.0 | 0.49 | 1.00 | |
| Oxychlordane | ND | 2.0 | 0.63 | 1.00 | |
| Toxaphene | ND | 25 | 8.2 | 1.00 | |
| Trans-nonachlor | ND | 2.0 | 0.56 | 1.00 | |
| Surrogate | Rec. (%) | Control Limits | Qualifiers | | |
| Decachlorobiphenyl | 85 | 50-150 | | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 97 | 50-150 | | | |

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

| | | |
|------------------------------|----------------|------------|
| ANCHOR QEA, LLC | Date Received: | 07/07/15 |
| 27201 Puerta Real, Suite 350 | Work Order: | 15-07-0298 |
| Mission Viejo, CA 92691-8306 | Preparation: | EPA 3510C |
| | Method: | EPA 8081A |
| | Units: | ng/L |

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-------------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-1002-G-S-20150707 | 15-07-0298-16-F | 07/07/15 10:30 | Sea Water | GC 44 | 07/13/15 | 07/15/15 16:59 | 150713L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------------------------|----------|----------------|------------|------|------------|
| 2,4'-DDD | ND | 2.0 | 0.58 | 1.00 | |
| 2,4'-DDE | ND | 2.0 | 0.49 | 1.00 | |
| 2,4'-DDT | ND | 2.0 | 0.69 | 1.00 | |
| 4,4'-DDD | ND | 2.0 | 0.55 | 1.00 | |
| 4,4'-DDE | ND | 2.0 | 0.48 | 1.00 | |
| 4,4'-DDT | ND | 2.0 | 0.55 | 1.00 | |
| Alpha Chlordane | ND | 2.0 | 0.49 | 1.00 | |
| Cis-nonachlor | ND | 2.0 | 0.50 | 1.00 | |
| Dieldrin | ND | 2.0 | 0.55 | 1.00 | |
| Gamma Chlordane | ND | 2.0 | 0.49 | 1.00 | |
| Oxychlordane | ND | 2.0 | 0.63 | 1.00 | |
| Toxaphene | ND | 25 | 8.2 | 1.00 | |
| Trans-nonachlor | ND | 2.0 | 0.56 | 1.00 | |
| Surrogate | Rec. (%) | Control Limits | Qualifiers | | |
| Decachlorobiphenyl | 80 | 50-150 | | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 93 | 50-150 | | | |



 Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 07/07/15
Work Order: 15-07-0298
Preparation: EPA 3510C
Method: EPA 8081A
Units: ng/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-06-G-S-20150707 | 15-07-0298-17-E | 07/07/15 14:15 | Sea Water | GC 44 | 07/13/15 | 07/15/15 17:14 | 150713L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------------------------|----------|----------------|------------|------|------------|
| 2,4'-DDD | ND | 2.0 | 0.58 | 1.00 | |
| 2,4'-DDE | ND | 2.0 | 0.49 | 1.00 | |
| 2,4'-DDT | ND | 2.0 | 0.69 | 1.00 | |
| 4,4'-DDD | ND | 2.0 | 0.55 | 1.00 | |
| 4,4'-DDE | ND | 2.0 | 0.48 | 1.00 | |
| 4,4'-DDT | ND | 2.0 | 0.55 | 1.00 | |
| Alpha Chlordane | ND | 2.0 | 0.49 | 1.00 | |
| Cis-nonachlor | ND | 2.0 | 0.50 | 1.00 | |
| Dieldrin | ND | 2.0 | 0.55 | 1.00 | |
| Gamma Chlordane | ND | 2.0 | 0.49 | 1.00 | |
| Oxychlordane | ND | 2.0 | 0.63 | 1.00 | |
| Toxaphene | ND | 25 | 8.2 | 1.00 | |
| Trans-nonachlor | ND | 2.0 | 0.56 | 1.00 | |
| Surrogate | Rec. (%) | Control Limits | Qualifiers | | |
| Decachlorobiphenyl | 102 | 50-150 | | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 113 | 50-150 | | | |

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

| | | |
|------------------------------|----------------|------------|
| ANCHOR QEA, LLC | Date Received: | 07/07/15 |
| 27201 Puerta Real, Suite 350 | Work Order: | 15-07-0298 |
| Mission Viejo, CA 92691-8306 | Preparation: | EPA 3510C |
| | Method: | EPA 8081A |
| | Units: | ng/L |

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| FH-RW-07-G-S-20150707 | 15-07-0298-24-F | 07/07/15 14:50 | Sea Water | GC 44 | 07/13/15 | 07/15/15 17:28 | 150713L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------------------------|----------|----------------|------------|------|------------|
| 2,4'-DDD | ND | 2.0 | 0.58 | 1.00 | |
| 2,4'-DDE | ND | 2.0 | 0.49 | 1.00 | |
| 2,4'-DDT | ND | 2.0 | 0.69 | 1.00 | |
| 4,4'-DDD | ND | 2.0 | 0.55 | 1.00 | |
| 4,4'-DDE | ND | 2.0 | 0.48 | 1.00 | |
| 4,4'-DDT | ND | 2.0 | 0.55 | 1.00 | |
| Alpha Chlordane | ND | 2.0 | 0.49 | 1.00 | |
| Cis-nonachlor | ND | 2.0 | 0.50 | 1.00 | |
| Dieldrin | ND | 2.0 | 0.55 | 1.00 | |
| Gamma Chlordane | ND | 2.0 | 0.49 | 1.00 | |
| Oxychlordane | ND | 2.0 | 0.63 | 1.00 | |
| Toxaphene | ND | 25 | 8.2 | 1.00 | |
| Trans-nonachlor | ND | 2.0 | 0.56 | 1.00 | |
| Surrogate | Rec. (%) | Control Limits | Qualifiers | | |
| Decachlorobiphenyl | 95 | 50-150 | | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 105 | 50-150 | | | |



 Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 07/07/15
Work Order: 15-07-0298
Preparation: EPA 3510C
Method: EPA 8081A
Units: ng/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|----------------------|---------------------|----------------|--------------|-----------------|---------------------------|------------------|
| Method Blank | 099-16-036-22 | N/A | Aqueous | GC 44 | 07/13/15 | 07/14/15 11:51 | 150713L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------------------|-----------------|-----------------------|-------------------|-----------|-------------------|
| 2,4'-DDD | ND | 2.0 | 0.58 | 1.00 | |
| 2,4'-DDE | ND | 2.0 | 0.49 | 1.00 | |
| 2,4'-DDT | ND | 2.0 | 0.69 | 1.00 | |
| 4,4'-DDD | ND | 2.0 | 0.55 | 1.00 | |
| 4,4'-DDE | ND | 2.0 | 0.48 | 1.00 | |
| 4,4'-DDT | ND | 2.0 | 0.55 | 1.00 | |
| Alpha Chlordane | ND | 2.0 | 0.49 | 1.00 | |
| Cis-nonachlor | ND | 2.0 | 0.50 | 1.00 | |
| Dieldrin | ND | 2.0 | 0.55 | 1.00 | |
| Gamma Chlordane | ND | 2.0 | 0.49 | 1.00 | |
| Oxychlordane | ND | 2.0 | 0.63 | 1.00 | |
| Toxaphene | ND | 25 | 8.2 | 1.00 | |
| Trans-nonachlor | ND | 2.0 | 0.56 | 1.00 | |
| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> | | |
| Decachlorobiphenyl | 85 | 50-150 | | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 74 | 50-150 | | | |

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

| | | |
|------------------------------|----------------|-----------------------------|
| ANCHOR QEA, LLC | Date Received: | 07/07/15 |
| 27201 Puerta Real, Suite 350 | Work Order: | 15-07-0298 |
| Mission Viejo, CA 92691-8306 | Preparation: | EPA 3510C |
| | Method: | EPA 8270C SIM PCB Congeners |
| | Units: | ug/L |

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| CS-RW-01-G-S-20150707 | 15-07-0298-1-E | 07/07/15 09:55 | Sea Water | GC/MS HHH | 07/10/15 | 07/14/15 14:29 | 150710L12 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------|--------|--------|---------|------|------------|
| PCB018 | ND | 0.0019 | 0.00040 | 1.00 | |
| PCB028 | ND | 0.0019 | 0.00064 | 1.00 | |
| PCB037 | ND | 0.0019 | 0.00046 | 1.00 | |
| PCB044 | ND | 0.0019 | 0.00075 | 1.00 | |
| PCB049 | ND | 0.0019 | 0.00075 | 1.00 | |
| PCB052 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB066 | ND | 0.0019 | 0.00055 | 1.00 | |
| PCB070 | ND | 0.0019 | 0.00037 | 1.00 | |
| PCB074 | ND | 0.0019 | 0.00041 | 1.00 | |
| PCB077 | ND | 0.0019 | 0.00063 | 1.00 | |
| PCB081 | ND | 0.0019 | 0.00047 | 1.00 | |
| PCB087 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB099 | ND | 0.0019 | 0.00058 | 1.00 | |
| PCB101 | ND | 0.0019 | 0.00056 | 1.00 | |
| PCB105 | ND | 0.0019 | 0.00036 | 1.00 | |
| PCB110 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB114 | ND | 0.0019 | 0.00042 | 1.00 | |
| PCB118 | ND | 0.0019 | 0.00047 | 1.00 | |
| PCB119 | ND | 0.0019 | 0.00041 | 1.00 | |
| PCB123 | ND | 0.0019 | 0.00074 | 1.00 | |
| PCB126 | ND | 0.0019 | 0.00052 | 1.00 | |
| PCB128 | ND | 0.0019 | 0.00068 | 1.00 | |
| PCB132/153 | ND | 0.0038 | 0.0011 | 1.00 | |
| PCB138/158 | ND | 0.0038 | 0.0011 | 1.00 | |
| PCB149 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB151 | ND | 0.0019 | 0.00059 | 1.00 | |
| PCB156 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB157 | ND | 0.0019 | 0.00072 | 1.00 | |
| PCB167 | ND | 0.0019 | 0.00083 | 1.00 | |
| PCB168 | ND | 0.0019 | 0.00032 | 1.00 | |
| PCB169 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB170 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB177 | ND | 0.0019 | 0.00055 | 1.00 | |
| PCB180 | ND | 0.0019 | 0.00069 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 07/07/15
 Work Order: 15-07-0298
 Preparation: EPA 3510C
 Method: EPA 8270C SIM PCB Congeners
 Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|-----------------|-----------------------|-------------------|-----------|-------------------|
| PCB183 | ND | 0.0019 | 0.00051 | 1.00 | |
| PCB187 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB189 | ND | 0.0019 | 0.00038 | 1.00 | |
| PCB194 | ND | 0.0019 | 0.00040 | 1.00 | |
| PCB195 | ND | 0.0019 | 0.00034 | 1.00 | |
| PCB201 | ND | 0.0019 | 0.00070 | 1.00 | |
| PCB206 | ND | 0.0019 | 0.00025 | 1.00 | |
| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> | | |
| 2-Fluorobiphenyl | 77 | 50-150 | | | |
| p-Terphenyl-d14 | 82 | 50-150 | | | |



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Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 07/07/15
Work Order: 15-07-0298
Preparation: EPA 3510C
Method: EPA 8270C SIM PCB Congeners
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-02-G-S-20150707 | 15-07-0298-4-E | 07/07/15 10:30 | Sea Water | GC/MS HHH | 07/10/15 | 07/14/15 14:54 | 150710L12 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------|--------|--------|---------|------|------------|
| PCB018 | ND | 0.0019 | 0.00040 | 1.00 | |
| PCB028 | ND | 0.0019 | 0.00064 | 1.00 | |
| PCB037 | ND | 0.0019 | 0.00046 | 1.00 | |
| PCB044 | ND | 0.0019 | 0.00075 | 1.00 | |
| PCB049 | ND | 0.0019 | 0.00075 | 1.00 | |
| PCB052 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB066 | ND | 0.0019 | 0.00055 | 1.00 | |
| PCB070 | ND | 0.0019 | 0.00037 | 1.00 | |
| PCB074 | ND | 0.0019 | 0.00041 | 1.00 | |
| PCB077 | ND | 0.0019 | 0.00063 | 1.00 | |
| PCB081 | ND | 0.0019 | 0.00047 | 1.00 | |
| PCB087 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB099 | ND | 0.0019 | 0.00058 | 1.00 | |
| PCB101 | ND | 0.0019 | 0.00056 | 1.00 | |
| PCB105 | ND | 0.0019 | 0.00036 | 1.00 | |
| PCB110 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB114 | ND | 0.0019 | 0.00042 | 1.00 | |
| PCB118 | ND | 0.0019 | 0.00047 | 1.00 | |
| PCB119 | ND | 0.0019 | 0.00041 | 1.00 | |
| PCB123 | ND | 0.0019 | 0.00074 | 1.00 | |
| PCB126 | ND | 0.0019 | 0.00052 | 1.00 | |
| PCB128 | ND | 0.0019 | 0.00068 | 1.00 | |
| PCB132/153 | ND | 0.0038 | 0.0011 | 1.00 | |
| PCB138/158 | ND | 0.0038 | 0.0011 | 1.00 | |
| PCB149 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB151 | ND | 0.0019 | 0.00059 | 1.00 | |
| PCB156 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB157 | ND | 0.0019 | 0.00072 | 1.00 | |
| PCB167 | ND | 0.0019 | 0.00083 | 1.00 | |
| PCB168 | ND | 0.0019 | 0.00032 | 1.00 | |
| PCB169 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB170 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB177 | ND | 0.0019 | 0.00055 | 1.00 | |
| PCB180 | ND | 0.0019 | 0.00069 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 07/07/15
 Work Order: 15-07-0298
 Preparation: EPA 3510C
 Method: EPA 8270C SIM PCB Congeners
 Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|-----------------|-----------------------|-------------------|-----------|-------------------|
| PCB183 | ND | 0.0019 | 0.00051 | 1.00 | |
| PCB187 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB189 | ND | 0.0019 | 0.00038 | 1.00 | |
| PCB194 | ND | 0.0019 | 0.00040 | 1.00 | |
| PCB195 | ND | 0.0019 | 0.00034 | 1.00 | |
| PCB201 | ND | 0.0019 | 0.00070 | 1.00 | |
| PCB206 | ND | 0.0019 | 0.00025 | 1.00 | |
| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> | | |
| 2-Fluorobiphenyl | 71 | 50-150 | | | |
| p-Terphenyl-d14 | 83 | 50-150 | | | |



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 07/07/15
Work Order: 15-07-0298
Preparation: EPA 3510C
Method: EPA 8270C SIM PCB Congeners
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-03-G-S-20150707 | 15-07-0298-7-F | 07/07/15 11:22 | Sea Water | GC/MS HHH | 07/10/15 | 07/14/15 15:19 | 150710L12 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------|--------|--------|---------|------|------------|
| PCB018 | ND | 0.0019 | 0.00040 | 1.00 | |
| PCB028 | ND | 0.0019 | 0.00064 | 1.00 | |
| PCB037 | ND | 0.0019 | 0.00046 | 1.00 | |
| PCB044 | ND | 0.0019 | 0.00075 | 1.00 | |
| PCB049 | ND | 0.0019 | 0.00075 | 1.00 | |
| PCB052 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB066 | ND | 0.0019 | 0.00055 | 1.00 | |
| PCB070 | ND | 0.0019 | 0.00037 | 1.00 | |
| PCB074 | ND | 0.0019 | 0.00041 | 1.00 | |
| PCB077 | ND | 0.0019 | 0.00063 | 1.00 | |
| PCB081 | ND | 0.0019 | 0.00047 | 1.00 | |
| PCB087 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB099 | ND | 0.0019 | 0.00058 | 1.00 | |
| PCB101 | ND | 0.0019 | 0.00056 | 1.00 | |
| PCB105 | ND | 0.0019 | 0.00036 | 1.00 | |
| PCB110 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB114 | ND | 0.0019 | 0.00042 | 1.00 | |
| PCB118 | ND | 0.0019 | 0.00047 | 1.00 | |
| PCB119 | ND | 0.0019 | 0.00041 | 1.00 | |
| PCB123 | ND | 0.0019 | 0.00074 | 1.00 | |
| PCB126 | ND | 0.0019 | 0.00052 | 1.00 | |
| PCB128 | ND | 0.0019 | 0.00068 | 1.00 | |
| PCB132/153 | ND | 0.0038 | 0.0011 | 1.00 | |
| PCB138/158 | ND | 0.0038 | 0.0011 | 1.00 | |
| PCB149 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB151 | ND | 0.0019 | 0.00059 | 1.00 | |
| PCB156 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB157 | ND | 0.0019 | 0.00072 | 1.00 | |
| PCB167 | ND | 0.0019 | 0.00083 | 1.00 | |
| PCB168 | ND | 0.0019 | 0.00032 | 1.00 | |
| PCB169 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB170 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB177 | ND | 0.0019 | 0.00055 | 1.00 | |
| PCB180 | ND | 0.0019 | 0.00069 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 07/07/15
Work Order: 15-07-0298
Preparation: EPA 3510C
Method: EPA 8270C SIM PCB Congeners
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|-----------------|-----------------------|-------------------|-----------|-------------------|
| PCB183 | ND | 0.0019 | 0.00051 | 1.00 | |
| PCB187 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB189 | ND | 0.0019 | 0.00038 | 1.00 | |
| PCB194 | ND | 0.0019 | 0.00040 | 1.00 | |
| PCB195 | ND | 0.0019 | 0.00034 | 1.00 | |
| PCB201 | ND | 0.0019 | 0.00070 | 1.00 | |
| PCB206 | ND | 0.0019 | 0.00025 | 1.00 | |
| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> | | |
| 2-Fluorobiphenyl | 76 | 50-150 | | | |
| p-Terphenyl-d14 | 81 | 50-150 | | | |

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

| | | |
|------------------------------|----------------|-----------------------------|
| ANCHOR QEA, LLC | Date Received: | 07/07/15 |
| 27201 Puerta Real, Suite 350 | Work Order: | 15-07-0298 |
| Mission Viejo, CA 92691-8306 | Preparation: | EPA 3510C |
| | Method: | EPA 8270C SIM PCB Congeners |
| | Units: | ug/L |

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-04-G-S-20150707 | 15-07-0298-10-G | 07/07/15 12:00 | Sea Water | GC/MS HHH | 07/10/15 | 07/14/15 15:44 | 150710L12 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------|--------|--------|---------|------|------------|
| PCB018 | ND | 0.0019 | 0.00040 | 1.00 | |
| PCB028 | ND | 0.0019 | 0.00064 | 1.00 | |
| PCB037 | ND | 0.0019 | 0.00046 | 1.00 | |
| PCB044 | ND | 0.0019 | 0.00075 | 1.00 | |
| PCB049 | ND | 0.0019 | 0.00075 | 1.00 | |
| PCB052 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB066 | ND | 0.0019 | 0.00055 | 1.00 | |
| PCB070 | ND | 0.0019 | 0.00037 | 1.00 | |
| PCB074 | ND | 0.0019 | 0.00041 | 1.00 | |
| PCB077 | ND | 0.0019 | 0.00063 | 1.00 | |
| PCB081 | ND | 0.0019 | 0.00047 | 1.00 | |
| PCB087 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB099 | ND | 0.0019 | 0.00058 | 1.00 | |
| PCB101 | ND | 0.0019 | 0.00056 | 1.00 | |
| PCB105 | ND | 0.0019 | 0.00036 | 1.00 | |
| PCB110 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB114 | ND | 0.0019 | 0.00042 | 1.00 | |
| PCB118 | ND | 0.0019 | 0.00047 | 1.00 | |
| PCB119 | ND | 0.0019 | 0.00041 | 1.00 | |
| PCB123 | ND | 0.0019 | 0.00074 | 1.00 | |
| PCB126 | ND | 0.0019 | 0.00052 | 1.00 | |
| PCB128 | ND | 0.0019 | 0.00068 | 1.00 | |
| PCB132/153 | ND | 0.0038 | 0.0011 | 1.00 | |
| PCB138/158 | ND | 0.0038 | 0.0011 | 1.00 | |
| PCB149 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB151 | ND | 0.0019 | 0.00059 | 1.00 | |
| PCB156 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB157 | ND | 0.0019 | 0.00072 | 1.00 | |
| PCB167 | ND | 0.0019 | 0.00083 | 1.00 | |
| PCB168 | ND | 0.0019 | 0.00032 | 1.00 | |
| PCB169 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB170 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB177 | ND | 0.0019 | 0.00055 | 1.00 | |
| PCB180 | ND | 0.0019 | 0.00069 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 07/07/15
 Work Order: 15-07-0298
 Preparation: EPA 3510C
 Method: EPA 8270C SIM PCB Congeners
 Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|-----------------|-----------------------|-------------------|-----------|-------------------|
| PCB183 | ND | 0.0019 | 0.00051 | 1.00 | |
| PCB187 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB189 | ND | 0.0019 | 0.00038 | 1.00 | |
| PCB194 | ND | 0.0019 | 0.00040 | 1.00 | |
| PCB195 | ND | 0.0019 | 0.00034 | 1.00 | |
| PCB201 | ND | 0.0019 | 0.00070 | 1.00 | |
| PCB206 | ND | 0.0019 | 0.00025 | 1.00 | |
| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> | | |
| 2-Fluorobiphenyl | 78 | 50-150 | | | |
| p-Terphenyl-d14 | 83 | 50-150 | | | |

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

| | | |
|------------------------------|----------------|-----------------------------|
| ANCHOR QEA, LLC | Date Received: | 07/07/15 |
| 27201 Puerta Real, Suite 350 | Work Order: | 15-07-0298 |
| Mission Viejo, CA 92691-8306 | Preparation: | EPA 3510C |
| | Method: | EPA 8270C SIM PCB Congeners |
| | Units: | ug/L |

Project: GWMA - TMDL Compliance Monitoring Page 9 of 18

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-05-G-S-20150707 | 15-07-0298-13-G | 07/07/15 14:50 | Sea Water | GC/MS HHH | 07/10/15 | 07/14/15 19:39 | 150710L12 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------|--------|--------|---------|------|------------|
| PCB018 | ND | 0.0019 | 0.00040 | 1.00 | |
| PCB028 | ND | 0.0019 | 0.00064 | 1.00 | |
| PCB037 | ND | 0.0019 | 0.00046 | 1.00 | |
| PCB044 | ND | 0.0019 | 0.00075 | 1.00 | |
| PCB049 | ND | 0.0019 | 0.00075 | 1.00 | |
| PCB052 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB066 | ND | 0.0019 | 0.00055 | 1.00 | |
| PCB070 | ND | 0.0019 | 0.00037 | 1.00 | |
| PCB074 | ND | 0.0019 | 0.00041 | 1.00 | |
| PCB077 | ND | 0.0019 | 0.00063 | 1.00 | |
| PCB081 | ND | 0.0019 | 0.00047 | 1.00 | |
| PCB087 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB099 | ND | 0.0019 | 0.00058 | 1.00 | |
| PCB101 | ND | 0.0019 | 0.00056 | 1.00 | |
| PCB105 | ND | 0.0019 | 0.00036 | 1.00 | |
| PCB110 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB114 | ND | 0.0019 | 0.00042 | 1.00 | |
| PCB118 | ND | 0.0019 | 0.00047 | 1.00 | |
| PCB119 | ND | 0.0019 | 0.00041 | 1.00 | |
| PCB123 | ND | 0.0019 | 0.00074 | 1.00 | |
| PCB126 | ND | 0.0019 | 0.00052 | 1.00 | |
| PCB128 | ND | 0.0019 | 0.00068 | 1.00 | |
| PCB132/153 | ND | 0.0038 | 0.0011 | 1.00 | |
| PCB138/158 | ND | 0.0038 | 0.0011 | 1.00 | |
| PCB149 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB151 | ND | 0.0019 | 0.00059 | 1.00 | |
| PCB156 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB157 | ND | 0.0019 | 0.00072 | 1.00 | |
| PCB167 | ND | 0.0019 | 0.00083 | 1.00 | |
| PCB168 | ND | 0.0019 | 0.00032 | 1.00 | |
| PCB169 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB170 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB177 | ND | 0.0019 | 0.00055 | 1.00 | |
| PCB180 | ND | 0.0019 | 0.00069 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 07/07/15
 Work Order: 15-07-0298
 Preparation: EPA 3510C
 Method: EPA 8270C SIM PCB Congeners
 Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|-----------------|-----------------------|-------------------|-----------|-------------------|
| PCB183 | ND | 0.0019 | 0.00051 | 1.00 | |
| PCB187 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB189 | ND | 0.0019 | 0.00038 | 1.00 | |
| PCB194 | ND | 0.0019 | 0.00040 | 1.00 | |
| PCB195 | ND | 0.0019 | 0.00034 | 1.00 | |
| PCB201 | ND | 0.0019 | 0.00070 | 1.00 | |
| PCB206 | ND | 0.0019 | 0.00025 | 1.00 | |
| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> | | |
| 2-Fluorobiphenyl | 75 | 50-150 | | | |
| p-Terphenyl-d14 | 82 | 50-150 | | | |



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Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 07/07/15
Work Order: 15-07-0298
Preparation: EPA 3510C
Method: EPA 8270C SIM PCB Congeners
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-------------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-1002-G-S-20150707 | 15-07-0298-16-E | 07/07/15 10:30 | Sea Water | GC/MS HHH | 07/10/15 | 07/14/15 20:04 | 150710L12 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------|--------|--------|---------|------|------------|
| PCB018 | ND | 0.0019 | 0.00040 | 1.00 | |
| PCB028 | ND | 0.0019 | 0.00063 | 1.00 | |
| PCB037 | ND | 0.0019 | 0.00046 | 1.00 | |
| PCB044 | ND | 0.0019 | 0.00074 | 1.00 | |
| PCB049 | ND | 0.0019 | 0.00074 | 1.00 | |
| PCB052 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB066 | ND | 0.0019 | 0.00055 | 1.00 | |
| PCB070 | ND | 0.0019 | 0.00036 | 1.00 | |
| PCB074 | ND | 0.0019 | 0.00041 | 1.00 | |
| PCB077 | ND | 0.0019 | 0.00062 | 1.00 | |
| PCB081 | ND | 0.0019 | 0.00046 | 1.00 | |
| PCB087 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB099 | ND | 0.0019 | 0.00058 | 1.00 | |
| PCB101 | ND | 0.0019 | 0.00055 | 1.00 | |
| PCB105 | ND | 0.0019 | 0.00036 | 1.00 | |
| PCB110 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB114 | ND | 0.0019 | 0.00042 | 1.00 | |
| PCB118 | ND | 0.0019 | 0.00047 | 1.00 | |
| PCB119 | ND | 0.0019 | 0.00041 | 1.00 | |
| PCB123 | ND | 0.0019 | 0.00073 | 1.00 | |
| PCB126 | ND | 0.0019 | 0.00052 | 1.00 | |
| PCB128 | ND | 0.0019 | 0.00067 | 1.00 | |
| PCB132/153 | ND | 0.0038 | 0.0011 | 1.00 | |
| PCB138/158 | ND | 0.0038 | 0.0011 | 1.00 | |
| PCB149 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB151 | ND | 0.0019 | 0.00058 | 1.00 | |
| PCB156 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB157 | ND | 0.0019 | 0.00072 | 1.00 | |
| PCB167 | ND | 0.0019 | 0.00083 | 1.00 | |
| PCB168 | ND | 0.0019 | 0.00031 | 1.00 | |
| PCB169 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB170 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB177 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB180 | ND | 0.0019 | 0.00068 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 07/07/15
 Work Order: 15-07-0298
 Preparation: EPA 3510C
 Method: EPA 8270C SIM PCB Congeners
 Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|-----------------|-----------------------|-------------------|-----------|-------------------|
| PCB183 | ND | 0.0019 | 0.00051 | 1.00 | |
| PCB187 | ND | 0.0019 | 0.00053 | 1.00 | |
| PCB189 | ND | 0.0019 | 0.00038 | 1.00 | |
| PCB194 | ND | 0.0019 | 0.00040 | 1.00 | |
| PCB195 | ND | 0.0019 | 0.00034 | 1.00 | |
| PCB201 | ND | 0.0019 | 0.00069 | 1.00 | |
| PCB206 | ND | 0.0019 | 0.00024 | 1.00 | |
| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> | | |
| 2-Fluorobiphenyl | 90 | 50-150 | | | |
| p-Terphenyl-d14 | 87 | 50-150 | | | |

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 07/07/15
Work Order: 15-07-0298
Preparation: EPA 3510C
Method: EPA 8270C SIM PCB Congeners
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-06-G-S-20150707 | 15-07-0298-17-F | 07/07/15 14:15 | Sea Water | GC/MS HHH | 07/10/15 | 07/14/15 20:29 | 150710L12 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------|--------|--------|---------|------|------------|
| PCB018 | ND | 0.0019 | 0.00040 | 1.00 | |
| PCB028 | ND | 0.0019 | 0.00064 | 1.00 | |
| PCB037 | ND | 0.0019 | 0.00046 | 1.00 | |
| PCB044 | ND | 0.0019 | 0.00075 | 1.00 | |
| PCB049 | ND | 0.0019 | 0.00075 | 1.00 | |
| PCB052 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB066 | ND | 0.0019 | 0.00055 | 1.00 | |
| PCB070 | ND | 0.0019 | 0.00037 | 1.00 | |
| PCB074 | ND | 0.0019 | 0.00041 | 1.00 | |
| PCB077 | ND | 0.0019 | 0.00063 | 1.00 | |
| PCB081 | ND | 0.0019 | 0.00047 | 1.00 | |
| PCB087 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB099 | ND | 0.0019 | 0.00058 | 1.00 | |
| PCB101 | ND | 0.0019 | 0.00056 | 1.00 | |
| PCB105 | ND | 0.0019 | 0.00036 | 1.00 | |
| PCB110 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB114 | ND | 0.0019 | 0.00042 | 1.00 | |
| PCB118 | ND | 0.0019 | 0.00047 | 1.00 | |
| PCB119 | ND | 0.0019 | 0.00041 | 1.00 | |
| PCB123 | ND | 0.0019 | 0.00074 | 1.00 | |
| PCB126 | ND | 0.0019 | 0.00052 | 1.00 | |
| PCB128 | ND | 0.0019 | 0.00068 | 1.00 | |
| PCB132/153 | ND | 0.0038 | 0.0011 | 1.00 | |
| PCB138/158 | ND | 0.0038 | 0.0011 | 1.00 | |
| PCB149 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB151 | ND | 0.0019 | 0.00059 | 1.00 | |
| PCB156 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB157 | ND | 0.0019 | 0.00072 | 1.00 | |
| PCB167 | ND | 0.0019 | 0.00083 | 1.00 | |
| PCB168 | ND | 0.0019 | 0.00032 | 1.00 | |
| PCB169 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB170 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB177 | ND | 0.0019 | 0.00055 | 1.00 | |
| PCB180 | ND | 0.0019 | 0.00069 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 07/07/15
 Work Order: 15-07-0298
 Preparation: EPA 3510C
 Method: EPA 8270C SIM PCB Congeners
 Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|-----------------|-----------------------|-------------------|-----------|-------------------|
| PCB183 | ND | 0.0019 | 0.00051 | 1.00 | |
| PCB187 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB189 | ND | 0.0019 | 0.00038 | 1.00 | |
| PCB194 | ND | 0.0019 | 0.00040 | 1.00 | |
| PCB195 | ND | 0.0019 | 0.00034 | 1.00 | |
| PCB201 | ND | 0.0019 | 0.00070 | 1.00 | |
| PCB206 | ND | 0.0019 | 0.00025 | 1.00 | |
| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> | | |
| 2-Fluorobiphenyl | 81 | 50-150 | | | |
| p-Terphenyl-d14 | 75 | 50-150 | | | |



Calscience

Analytical Report

| | | |
|------------------------------|----------------|-----------------------------|
| ANCHOR QEA, LLC | Date Received: | 07/07/15 |
| 27201 Puerta Real, Suite 350 | Work Order: | 15-07-0298 |
| Mission Viejo, CA 92691-8306 | Preparation: | EPA 3510C |
| | Method: | EPA 8270C SIM PCB Congeners |
| | Units: | ug/L |

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| FH-RW-07-G-S-20150707 | 15-07-0298-24-E | 07/07/15 14:50 | Sea Water | GC/MS HHH | 07/10/15 | 07/14/15 20:53 | 150710L12 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------|--------|--------|---------|------|------------|
| PCB018 | ND | 0.0019 | 0.00040 | 1.00 | |
| PCB028 | ND | 0.0019 | 0.00064 | 1.00 | |
| PCB037 | ND | 0.0019 | 0.00046 | 1.00 | |
| PCB044 | ND | 0.0019 | 0.00076 | 1.00 | |
| PCB049 | ND | 0.0019 | 0.00076 | 1.00 | |
| PCB052 | ND | 0.0019 | 0.00050 | 1.00 | |
| PCB066 | ND | 0.0019 | 0.00056 | 1.00 | |
| PCB070 | ND | 0.0019 | 0.00037 | 1.00 | |
| PCB074 | ND | 0.0019 | 0.00042 | 1.00 | |
| PCB077 | ND | 0.0019 | 0.00063 | 1.00 | |
| PCB081 | ND | 0.0019 | 0.00047 | 1.00 | |
| PCB087 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB099 | ND | 0.0019 | 0.00059 | 1.00 | |
| PCB101 | ND | 0.0019 | 0.00056 | 1.00 | |
| PCB105 | ND | 0.0019 | 0.00037 | 1.00 | |
| PCB110 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB114 | ND | 0.0019 | 0.00043 | 1.00 | |
| PCB118 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB119 | ND | 0.0019 | 0.00042 | 1.00 | |
| PCB123 | ND | 0.0019 | 0.00074 | 1.00 | |
| PCB126 | ND | 0.0019 | 0.00053 | 1.00 | |
| PCB128 | ND | 0.0019 | 0.00068 | 1.00 | |
| PCB132/153 | ND | 0.0039 | 0.0011 | 1.00 | |
| PCB138/158 | ND | 0.0039 | 0.0011 | 1.00 | |
| PCB149 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB151 | ND | 0.0019 | 0.00059 | 1.00 | |
| PCB156 | ND | 0.0019 | 0.00050 | 1.00 | |
| PCB157 | ND | 0.0019 | 0.00073 | 1.00 | |
| PCB167 | ND | 0.0019 | 0.00084 | 1.00 | |
| PCB168 | ND | 0.0019 | 0.00032 | 1.00 | |
| PCB169 | ND | 0.0019 | 0.00055 | 1.00 | |
| PCB170 | ND | 0.0019 | 0.00055 | 1.00 | |
| PCB177 | ND | 0.0019 | 0.00055 | 1.00 | |
| PCB180 | ND | 0.0019 | 0.00070 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 07/07/15
 Work Order: 15-07-0298
 Preparation: EPA 3510C
 Method: EPA 8270C SIM PCB Congeners
 Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|-----------------|-----------------------|-------------------|-----------|-------------------|
| PCB183 | ND | 0.0019 | 0.00052 | 1.00 | |
| PCB187 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB189 | ND | 0.0019 | 0.00039 | 1.00 | |
| PCB194 | ND | 0.0019 | 0.00041 | 1.00 | |
| PCB195 | ND | 0.0019 | 0.00034 | 1.00 | |
| PCB201 | ND | 0.0019 | 0.00070 | 1.00 | |
| PCB206 | ND | 0.0019 | 0.00025 | 1.00 | |
| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> | | |
| 2-Fluorobiphenyl | 85 | 50-150 | | | |
| p-Terphenyl-d14 | 79 | 50-150 | | | |



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Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 07/07/15
Work Order: 15-07-0298
Preparation: EPA 3510C
Method: EPA 8270C SIM PCB Congeners
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|---------|------------|---------------|--------------------|-------------|
| Method Blank | 099-16-414-45 | N/A | Aqueous | GC/MS HHH | 07/10/15 | 07/14/15 19:14 | 150710L12 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------|--------|--------|---------|------|------------|
| PCB018 | ND | 0.0020 | 0.00042 | 1.00 | |
| PCB028 | ND | 0.0020 | 0.00066 | 1.00 | |
| PCB037 | ND | 0.0020 | 0.00048 | 1.00 | |
| PCB044 | ND | 0.0020 | 0.00078 | 1.00 | |
| PCB049 | ND | 0.0020 | 0.00078 | 1.00 | |
| PCB052 | ND | 0.0020 | 0.00051 | 1.00 | |
| PCB066 | ND | 0.0020 | 0.00057 | 1.00 | |
| PCB070 | ND | 0.0020 | 0.00038 | 1.00 | |
| PCB074 | ND | 0.0020 | 0.00043 | 1.00 | |
| PCB077 | ND | 0.0020 | 0.00065 | 1.00 | |
| PCB081 | ND | 0.0020 | 0.00048 | 1.00 | |
| PCB087 | ND | 0.0020 | 0.00050 | 1.00 | |
| PCB099 | ND | 0.0020 | 0.00060 | 1.00 | |
| PCB101 | ND | 0.0020 | 0.00058 | 1.00 | |
| PCB105 | ND | 0.0020 | 0.00038 | 1.00 | |
| PCB110 | ND | 0.0020 | 0.00050 | 1.00 | |
| PCB114 | ND | 0.0020 | 0.00044 | 1.00 | |
| PCB118 | ND | 0.0020 | 0.00049 | 1.00 | |
| PCB119 | ND | 0.0020 | 0.00043 | 1.00 | |
| PCB123 | ND | 0.0020 | 0.00077 | 1.00 | |
| PCB126 | ND | 0.0020 | 0.00055 | 1.00 | |
| PCB128 | ND | 0.0020 | 0.00070 | 1.00 | |
| PCB132/153 | ND | 0.0040 | 0.0012 | 1.00 | |
| PCB138/158 | ND | 0.0040 | 0.0011 | 1.00 | |
| PCB149 | ND | 0.0020 | 0.00050 | 1.00 | |
| PCB151 | ND | 0.0020 | 0.00061 | 1.00 | |
| PCB156 | ND | 0.0020 | 0.00051 | 1.00 | |
| PCB157 | ND | 0.0020 | 0.00075 | 1.00 | |
| PCB167 | ND | 0.0020 | 0.00087 | 1.00 | |
| PCB168 | ND | 0.0020 | 0.00033 | 1.00 | |
| PCB169 | ND | 0.0020 | 0.00056 | 1.00 | |
| PCB170 | ND | 0.0020 | 0.00056 | 1.00 | |
| PCB177 | ND | 0.0020 | 0.00057 | 1.00 | |
| PCB180 | ND | 0.0020 | 0.00072 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 07/07/15
 Work Order: 15-07-0298
 Preparation: EPA 3510C
 Method: EPA 8270C SIM PCB Congeners
 Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|-----------------|-----------------------|-------------------|-----------|-------------------|
| PCB183 | ND | 0.0020 | 0.00053 | 1.00 | |
| PCB187 | ND | 0.0020 | 0.00056 | 1.00 | |
| PCB189 | ND | 0.0020 | 0.00040 | 1.00 | |
| PCB194 | ND | 0.0020 | 0.00042 | 1.00 | |
| PCB195 | ND | 0.0020 | 0.00035 | 1.00 | |
| PCB201 | ND | 0.0020 | 0.00072 | 1.00 | |
| PCB206 | ND | 0.0020 | 0.00026 | 1.00 | |
| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> | | |
| 2-Fluorobiphenyl | 66 | 50-150 | | | |
| p-Terphenyl-d14 | 73 | 50-150 | | | |



Calscience

Quality Control - Spike/Spike Duplicate

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 07/07/15
Work Order: 15-07-0298
Preparation: EPA 1631E Total
Method: EPA 1631E

Project: GWMA - TMDL Compliance Monitoring

Page 1 of 4

| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | MS/MSD Batch Number |
|---------------------------|------------------------|-----------|------------|---------------|----------------|---------------------|
| CS-RW-01-G-S-20150707 | Sample | Sea Water | Hg/AF 1 | 07/16/15 | 07/16/15 00:00 | 150716S02 |
| CS-RW-01-G-S-20150707 | Matrix Spike | Sea Water | Hg/AF 1 | 07/16/15 | 07/16/15 00:00 | 150716S02 |
| CS-RW-01-G-S-20150707 | Matrix Spike Duplicate | Sea Water | Hg/AF 1 | 07/16/15 | 07/16/15 00:00 | 150716S02 |

| Parameter | Sample Conc. | Spike Added | MS Conc. | MS %Rec. | MSD Conc. | MSD %Rec. | %Rec. CL | RPD | RPD CL | Qualifiers |
|-----------|--------------|-------------|----------|----------|-----------|-----------|----------|-----|--------|------------|
| Mercury | 0.9676 | 20.00 | 23.20 | 111 | 22.69 | 109 | 71-125 | 2 | 0-24 | |

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RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - Spike/Spike Duplicate

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 07/07/15
Work Order: 15-07-0298
Preparation: EPA 1631E Total
Method: EPA 1631E

Project: GWMA - TMDL Compliance Monitoring

Page 2 of 4

| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | MS/MSD Batch Number |
|---------------------------|------------------------|-----------|------------|---------------|----------------|---------------------|
| FH-RW-07-G-S-20150707 | Sample | Sea Water | Hg/AF 1 | 07/16/15 | 07/16/15 00:00 | 150716S02A |
| FH-RW-07-G-S-20150707 | Matrix Spike | Sea Water | Hg/AF 1 | 07/16/15 | 07/16/15 00:00 | 150716S02A |
| FH-RW-07-G-S-20150707 | Matrix Spike Duplicate | Sea Water | Hg/AF 1 | 07/16/15 | 07/16/15 00:00 | 150716S02A |

| <u>Parameter</u> | <u>Sample Conc.</u> | <u>Spike Added</u> | <u>MS Conc.</u> | <u>MS %Rec.</u> | <u>MSD Conc.</u> | <u>MSD %Rec.</u> | <u>%Rec. CL</u> | <u>RPD</u> | <u>RPD CL</u> | <u>Qualifiers</u> |
|------------------|---------------------|--------------------|-----------------|-----------------|------------------|------------------|-----------------|------------|---------------|-------------------|
| Mercury | 3.816 | 20.00 | 24.12 | 102 | 24.97 | 106 | 71-125 | 3 | 0-24 | |

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RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - Spike/Spike Duplicate

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 07/07/15
Work Order: 15-07-0298
Preparation: EPA 3005A Total
Method: EPA 1640

Project: GWMA - TMDL Compliance Monitoring

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| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | MS/MSD Batch Number |
|---------------------------|------------------------|-----------|------------|---------------|----------------|---------------------|
| 15-07-0530-3 | Sample | Sea Water | ICP/MS 05 | 07/14/15 | 07/14/15 18:40 | 150714S01 |
| 15-07-0530-3 | Matrix Spike | Sea Water | ICP/MS 05 | 07/14/15 | 07/14/15 18:48 | 150714S01 |
| 15-07-0530-3 | Matrix Spike Duplicate | Sea Water | ICP/MS 05 | 07/14/15 | 07/14/15 18:56 | 150714S01 |

| Parameter | Sample Conc. | Spike Added | MS Conc. | MS %Rec. | MSD Conc. | MSD %Rec. | %Rec. CL | RPD | RPD CL | Qualifiers |
|-----------|--------------|-------------|----------|----------|-----------|-----------|----------|-----|--------|------------|
| Cadmium | 0.03172 | 0.5000 | 0.5170 | 97 | 0.5138 | 96 | 50-150 | 1 | 0-20 | |
| Chromium | 1.662 | 5.000 | 10.13 | 169 | 10.36 | 174 | 50-150 | 2 | 0-20 | 3 |
| Copper | 6.877 | 5.000 | 15.00 | 163 | 12.98 | 122 | 50-150 | 14 | 0-20 | 3 |
| Lead | 1.451 | 0.5000 | 1.700 | 50 | 1.778 | 65 | 50-150 | 5 | 0-20 | |
| Zinc | 7.341 | 50.00 | 74.74 | 135 | 67.32 | 120 | 50-150 | 10 | 0-20 | |


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RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - Spike/Spike Duplicate

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 07/07/15
Work Order: 15-07-0298
Preparation: EPA 3510C
Method: EPA 8081A

Project: GWMA - TMDL Compliance Monitoring

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| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | MS/MSD Batch Number |
|---------------------------|------------------------|-----------|------------|---------------|----------------|---------------------|
| 15-07-0323-3 | Sample | Sea Water | GC 44 | 07/13/15 | 07/14/15 13:09 | 150713S01 |
| 15-07-0323-3 | Matrix Spike | Sea Water | GC 44 | 07/13/15 | 07/14/15 12:41 | 150713S01 |
| 15-07-0323-3 | Matrix Spike Duplicate | Sea Water | GC 44 | 07/13/15 | 07/14/15 12:55 | 150713S01 |

| Parameter | Sample Conc. | Spike Added | MS Conc. | MS %Rec. | MSD Conc. | MSD %Rec. | %Rec. CL | RPD | RPD CL | Qualifiers |
|--------------------|--------------|-------------|----------|----------|-----------|-----------|----------|-----|--------|------------|
| Aldrin | ND | 50.00 | 39.98 | 80 | 41.12 | 82 | 50-150 | 3 | 0-25 | |
| 4,4'-DDD | ND | 50.00 | 42.51 | 85 | 43.06 | 86 | 50-150 | 1 | 0-25 | |
| 4,4'-DDE | ND | 50.00 | 45.02 | 90 | 44.93 | 90 | 50-150 | 0 | 0-25 | |
| 4,4'-DDT | ND | 50.00 | 37.61 | 75 | 33.60 | 67 | 50-150 | 11 | 0-25 | |
| Alpha Chlordane | ND | 50.00 | 38.25 | 76 | 38.13 | 76 | 50-150 | 0 | 0-25 | |
| Dieldrin | ND | 50.00 | 38.96 | 78 | 36.93 | 74 | 50-150 | 5 | 0-25 | |
| Gamma Chlordane | ND | 50.00 | 36.39 | 73 | 34.33 | 69 | 50-150 | 6 | 0-25 | |
| Endrin | ND | 50.00 | 40.47 | 81 | 39.72 | 79 | 50-150 | 2 | 0-25 | |
| Gamma-BHC | ND | 50.00 | 36.82 | 74 | 38.22 | 76 | 50-150 | 4 | 0-25 | |
| Heptachlor | ND | 50.00 | 38.61 | 77 | 39.33 | 79 | 50-150 | 2 | 0-25 | |
| Heptachlor Epoxide | ND | 50.00 | 37.81 | 76 | 39.33 | 79 | 50-150 | 4 | 0-25 | |

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RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - Sample Duplicate

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 07/07/15
Work Order: 15-07-0298
Preparation: N/A
Method: SM 2540 D

Project: GWMA - TMDL Compliance Monitoring

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| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | Duplicate Batch Number |
|---------------------------|------------------|-----------|------------|----------------|----------------|------------------------|
| 15-07-0531-2 | Sample | Sea Water | N/A | 07/10/15 00:00 | 07/10/15 20:00 | F0710TSSD2 |
| 15-07-0531-2 | Sample Duplicate | Sea Water | N/A | 07/10/15 00:00 | 07/10/15 20:00 | F0710TSSD2 |

| Parameter | Sample Conc. | DUP Conc. | RPD | RPD CL | Qualifiers |
|-------------------------|--------------|-----------|-----|--------|------------|
| Solids, Total Suspended | 5.200 | 4.800 | 8 | 0-20 | |

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RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - Sample Duplicate

| | | |
|--|----------------|-------------|
| ANCHOR QEA, LLC | Date Received: | 07/07/15 |
| 27201 Puerta Real, Suite 350 | Work Order: | 15-07-0298 |
| Mission Viejo, CA 92691-8306 | Preparation: | N/A |
| | Method: | SM 2540 D |
| Project: GWMA - TMDL Compliance Monitoring | | Page 2 of 2 |

| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | Duplicate Batch Number |
|---------------------------|------------------|---------------------|------------------|----------------|----------------|------------------------|
| 15-07-0253-2 | Sample | Aqueous | N/A | 07/10/15 00:00 | 07/10/15 20:00 | F0710TSSD3 |
| 15-07-0253-2 | Sample Duplicate | Aqueous | N/A | 07/10/15 00:00 | 07/10/15 20:00 | F0710TSSD3 |
| <u>Parameter</u> | | <u>Sample Conc.</u> | <u>DUP Conc.</u> | <u>RPD</u> | <u>RPD CL</u> | <u>Qualifiers</u> |
| Solids, Total Suspended | | 620.0 | 600.0 | 3 | 0-20 | |

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RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - LCS/LCSD

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 07/07/15
Work Order: 15-07-0298
Preparation: N/A
Method: SM 2540 D

Project: GWMA - TMDL Compliance Monitoring

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| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | LCS/LCSD Batch Number | | | |
|---------------------------|-------------|-----------|------------|---------------|----------------|-----------------------|-----|--------|------------|
| 099-09-010-7225 | LCS | Aqueous | N/A | 07/10/15 | 07/10/15 20:00 | F0710TSSL2 | | | |
| 099-09-010-7225 | LCSD | Aqueous | N/A | 07/10/15 | 07/10/15 20:00 | F0710TSSL2 | | | |
| Parameter | Spike Added | LCS Conc. | LCS %Rec. | LCSD Conc. | LCSD %Rec. | %Rec. CL | RPD | RPD CL | Qualifiers |
| Solids, Total Suspended | 100.0 | 100.0 | 100 | 90.00 | 90 | 80-120 | 11 | 0-20 | |

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RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - LCS/LCSD

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 07/07/15
Work Order: 15-07-0298
Preparation: N/A
Method: SM 2540 D

Project: GWMA - TMDL Compliance Monitoring

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| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | LCS/LCSD Batch Number | | | |
|---------------------------|-------------|-----------|------------|---------------|----------------|-----------------------|-----|--------|------------|
| 099-09-010-7231 | LCS | Aqueous | N/A | 07/10/15 | 07/10/15 20:00 | F0710TSSL3 | | | |
| 099-09-010-7231 | LCSD | Aqueous | N/A | 07/10/15 | 07/10/15 20:00 | F0710TSSL3 | | | |
| Parameter | Spike Added | LCS Conc. | LCS %Rec. | LCSD Conc. | LCSD %Rec. | %Rec. CL | RPD | RPD CL | Qualifiers |
| Solids, Total Suspended | 100.0 | 120.0 | 120 | 119.0 | 119 | 80-120 | 1 | 0-20 | |

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RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - LCS/LCSD

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 07/07/15
Work Order: 15-07-0298
Preparation: EPA 1631E Total
Method: EPA 1631E

Project: GWMA - TMDL Compliance Monitoring

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| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | LCS/LCSD Batch Number | | | |
|---------------------------|-------------|-----------|------------|---------------|----------------|-----------------------|-----|--------|------------|
| 099-15-224-94 | LCS | Aqueous | Hg/AF 1 | 07/16/15 | 07/16/15 00:00 | 150716L02 | | | |
| 099-15-224-94 | LCSD | Aqueous | Hg/AF 1 | 07/16/15 | 07/16/15 00:00 | 150716L02 | | | |
| Parameter | Spike Added | LCS Conc. | LCS %Rec. | LCSD Conc. | LCSD %Rec. | %Rec. CL | RPD | RPD CL | Qualifiers |
| Mercury | 20.00 | 21.70 | 108 | 21.79 | 109 | 71-125 | 0 | 0-20 | |

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RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - LCS/LCSD

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 07/07/15
Work Order: 15-07-0298
Preparation: Filtered
Method: EPA 1631E

Project: GWMA - TMDL Compliance Monitoring

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| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | LCS/LCSD Batch Number | | | |
|---------------------------|-------------|-----------|------------|---------------|----------------|-----------------------|-----|--------|------------|
| 099-15-226-67 | LCS | Aqueous | Hg/AF 1 | 07/16/15 | 07/16/15 00:00 | 150716L02F | | | |
| 099-15-226-67 | LCSD | Aqueous | Hg/AF 1 | 07/16/15 | 07/16/15 00:00 | 150716L02F | | | |
| Parameter | Spike Added | LCS Conc. | LCS %Rec. | LCSD Conc. | LCSD %Rec. | %Rec. CL | RPD | RPD CL | Qualifiers |
| Mercury | 20.00 | 21.70 | 108 | 21.79 | 109 | 71-125 | 0 | 0-20 | |

RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - LCS/LCSD

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 07/07/15
Work Order: 15-07-0298
Preparation: EPA 3005A Total
Method: EPA 1640

Project: GWMA - TMDL Compliance Monitoring

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| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | LCS/LCSD Batch Number | | | |
|---------------------------|-------------|-----------|------------|---------------|----------------|-----------------------|-----|--------|------------|
| 099-13-067-525 | LCS | Aqueous | ICP/MS 05 | 07/14/15 | 07/14/15 17:20 | 150714L01 | | | |
| 099-13-067-525 | LCSD | Aqueous | ICP/MS 05 | 07/14/15 | 07/14/15 17:28 | 150714L01 | | | |
| Parameter | Spike Added | LCS Conc. | LCS %Rec. | LCSD Conc. | LCSD %Rec. | %Rec. CL | RPD | RPD CL | Qualifiers |
| Cadmium | 0.5000 | 0.4979 | 100 | 0.4894 | 98 | 70-130 | 2 | 0-20 | |
| Chromium | 5.000 | 5.302 | 106 | 5.255 | 105 | 70-130 | 1 | 0-20 | |
| Copper | 0.5000 | 0.5174 | 103 | 0.5045 | 101 | 70-130 | 3 | 0-20 | |
| Lead | 0.5000 | 0.5052 | 101 | 0.4843 | 97 | 70-130 | 4 | 0-20 | |
| Zinc | 5.000 | 5.337 | 107 | 5.102 | 102 | 70-130 | 4 | 0-20 | |

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RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - LCS/LCSD

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 07/07/15
Work Order: 15-07-0298
Preparation: EPA 3005A Filt.
Method: EPA 1640

Project: GWMA - TMDL Compliance Monitoring

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| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | LCS/LCSD Batch Number |
|---------------------------|------|---------|------------|---------------|----------------|-----------------------|
| 099-15-823-161 | LCS | Aqueous | ICP/MS 05 | 07/14/15 | 07/14/15 17:20 | 150714L01A |
| 099-15-823-161 | LCSD | Aqueous | ICP/MS 05 | 07/14/15 | 07/14/15 17:28 | 150714L01A |

| Parameter | Spike Added | LCS Conc. | LCS %Rec. | LCSD Conc. | LCSD %Rec. | %Rec. CL | RPD | RPD CL | Qualifiers |
|-----------|-------------|-----------|-----------|------------|------------|----------|-----|--------|------------|
| Cadmium | 0.5000 | 0.4979 | 100 | 0.4894 | 98 | 70-130 | 2 | 0-20 | |
| Chromium | 5.000 | 5.302 | 106 | 5.255 | 105 | 70-130 | 1 | 0-20 | |
| Copper | 0.5000 | 0.5174 | 103 | 0.5045 | 101 | 70-130 | 3 | 0-20 | |
| Lead | 0.5000 | 0.5052 | 101 | 0.4843 | 97 | 70-130 | 4 | 0-20 | |
| Zinc | 5.000 | 5.337 | 107 | 5.102 | 102 | 70-130 | 4 | 0-20 | |


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RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - LCS/LCSD

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 07/07/15
Work Order: 15-07-0298
Preparation: EPA 3510C
Method: EPA 8081A

Project: GWMA - TMDL Compliance Monitoring

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| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | LCS/LCSD Batch Number | | | | |
|---------------------------|-------------|-----------|------------|---------------|----------------|-----------------------|--------|-----|--------|------------|
| 099-16-036-22 | LCS | Aqueous | GC 44 | 07/13/15 | 07/15/15 17:43 | 150713L01 | | | | |
| 099-16-036-22 | LCSD | Aqueous | GC 44 | 07/13/15 | 07/14/15 11:36 | 150713L01 | | | | |
| Parameter | Spike Added | LCS Conc. | LCS %Rec. | LCSD Conc. | LCSD %Rec. | %Rec. CL | ME CL | RPD | RPD CL | Qualifiers |
| Aldrin | 50.00 | 45.45 | 91 | 40.94 | 82 | 50-150 | 33-167 | 10 | 0-25 | |
| 4,4'-DDD | 50.00 | 51.77 | 104 | 48.41 | 97 | 50-150 | 33-167 | 7 | 0-25 | |
| 4,4'-DDE | 50.00 | 58.24 | 116 | 51.60 | 103 | 50-150 | 33-167 | 12 | 0-25 | |
| 4,4'-DDT | 50.00 | 53.94 | 108 | 42.08 | 84 | 50-150 | 33-167 | 25 | 0-25 | |
| Alpha Chlordane | 50.00 | 50.89 | 102 | 45.17 | 90 | 50-150 | 33-167 | 12 | 0-25 | |
| Dieldrin | 50.00 | 53.53 | 107 | 47.15 | 94 | 50-150 | 33-167 | 13 | 0-25 | |
| Gamma Chlordane | 50.00 | 49.21 | 98 | 43.61 | 87 | 50-150 | 33-167 | 12 | 0-25 | |
| Endrin | 50.00 | 56.86 | 114 | 46.99 | 94 | 50-150 | 33-167 | 19 | 0-25 | |
| Gamma-BHC | 50.00 | 47.60 | 95 | 41.14 | 82 | 50-150 | 33-167 | 15 | 0-25 | |
| Heptachlor | 50.00 | 50.46 | 101 | 44.01 | 88 | 50-150 | 33-167 | 14 | 0-25 | |
| Heptachlor Epoxide | 50.00 | 50.52 | 101 | 45.09 | 90 | 50-150 | 33-167 | 11 | 0-25 | |

Total number of LCS compounds: 11

Total number of ME compounds: 0

Total number of ME compounds allowed: 1

LCS ME CL validation result: Pass

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - LCS/LCSD

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 07/07/15
Work Order: 15-07-0298
Preparation: EPA 3510C
Method: EPA 8270C SIM PCB Congeners

Project: GWMA - TMDL Compliance Monitoring

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| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | LCS/LCSD Batch Number | | | | |
|---------------------------|-------------|-----------|------------|---------------|----------------|-----------------------|--------|-----|--------|------------|
| 099-16-414-45 | LCS | Aqueous | GC/MS HHH | 07/10/15 | 07/14/15 13:12 | 150710L12 | | | | |
| 099-16-414-45 | LCSD | Aqueous | GC/MS HHH | 07/10/15 | 07/14/15 13:38 | 150710L12 | | | | |
| Parameter | Spike Added | LCS Conc. | LCS %Rec. | LCSD Conc. | LCSD %Rec. | %Rec. CL | ME CL | RPD | RPD CL | Qualifiers |
| PCB018 | 0.5000 | 0.4074 | 81 | 0.3995 | 80 | 50-150 | 33-167 | 2 | 0-25 | |
| PCB028 | 0.5000 | 0.4330 | 87 | 0.4181 | 84 | 50-150 | 33-167 | 4 | 0-25 | |
| PCB044 | 0.5000 | 0.4277 | 86 | 0.4079 | 82 | 50-150 | 33-167 | 5 | 0-25 | |
| PCB052 | 0.5000 | 0.3969 | 79 | 0.3780 | 76 | 50-150 | 33-167 | 5 | 0-25 | |
| PCB066 | 0.5000 | 0.5298 | 106 | 0.4971 | 99 | 50-150 | 33-167 | 6 | 0-25 | |
| PCB077 | 0.5000 | 0.4705 | 94 | 0.4442 | 89 | 50-150 | 33-167 | 6 | 0-25 | |
| PCB101 | 0.5000 | 0.4401 | 88 | 0.4149 | 83 | 50-150 | 33-167 | 6 | 0-25 | |
| PCB105 | 0.5000 | 0.4967 | 99 | 0.4646 | 93 | 50-150 | 33-167 | 7 | 0-25 | |
| PCB118 | 0.5000 | 0.5216 | 104 | 0.4805 | 96 | 50-150 | 33-167 | 8 | 0-25 | |
| PCB126 | 0.5000 | 0.4932 | 99 | 0.4545 | 91 | 50-150 | 33-167 | 8 | 0-25 | |
| PCB128 | 0.5000 | 0.4726 | 95 | 0.4404 | 88 | 50-150 | 33-167 | 7 | 0-25 | |
| PCB170 | 0.5000 | 0.4572 | 91 | 0.4417 | 88 | 50-150 | 33-167 | 3 | 0-25 | |
| PCB180 | 0.5000 | 0.5207 | 104 | 0.4802 | 96 | 50-150 | 33-167 | 8 | 0-25 | |
| PCB187 | 0.5000 | 0.4957 | 99 | 0.4561 | 91 | 50-150 | 33-167 | 8 | 0-25 | |
| PCB195 | 0.5000 | 0.4817 | 96 | 0.4632 | 93 | 50-150 | 33-167 | 4 | 0-25 | |
| PCB206 | 0.5000 | 0.4625 | 93 | 0.4386 | 88 | 50-150 | 33-167 | 5 | 0-25 | |
| PCB209 | 0.5000 | 0.4743 | 95 | 0.4509 | 90 | 50-150 | 33-167 | 5 | 0-25 | |

Total number of LCS compounds: 17

Total number of ME compounds: 0

Total number of ME compounds allowed: 1

LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

Glossary of Terms and Qualifiers

Work Order: 15-07-0298

Page 1 of 1

| <u>Qualifiers</u> | <u>Definition</u> |
|-------------------|---|
| * | See applicable analysis comment. |
| < | Less than the indicated value. |
| > | Greater than the indicated value. |
| 1 | Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification. |
| 2 | Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification. |
| 3 | Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control. |
| 4 | The MS/MSD RPD was out of control due to suspected matrix interference. |
| 5 | The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference. |
| 6 | Surrogate recovery below the acceptance limit. |
| 7 | Surrogate recovery above the acceptance limit. |
| B | Analyte was present in the associated method blank. |
| BU | Sample analyzed after holding time expired. |
| BV | Sample received after holding time expired. |
| CI | See case narrative. |
| E | Concentration exceeds the calibration range. |
| ET | Sample was extracted past end of recommended max. holding time. |
| HD | The chromatographic pattern was inconsistent with the profile of the reference fuel standard. |
| HDH | The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected). |
| HDL | The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected). |
| J | Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated. |
| JA | Analyte positively identified but quantitation is an estimate. |
| ME | LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean). |
| ND | Parameter not detected at the indicated reporting limit. |
| Q | Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater. |
| SG | The sample extract was subjected to Silica Gel treatment prior to analysis. |
| X | % Recovery and/or RPD out-of-range. |
| Z | Analyte presence was not confirmed by second column or GC/MS analysis. |
| | Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis. |
| | Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time. |
| | A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations. |

Chain of Cust Record & Laboratory Analysis Request

| | |
|---|------------------------|
| Laboratory Number: _____ Date: <u>7/7/15</u> Project Name: GWMA-TMDL Compliance Monitoring Project Number: 141205-01.01 Project Manager: Andy Martin Phone Number: (949) 334-9630 Shipment Method: Courier | Test Parameters |
|---|------------------------|



15-07-0298

| Line | Field Sample ID | Collection Date/Time | Matrix | No. of Containers | Test Parameters | | | | | | | | | | Comments/Preservation | | |
|------|-----------------------|----------------------|--------|-------------------|-----------------|----------------------------|-----------------------------|---------------------------|---------------|--|--|--|--|--|-----------------------|--|--|
| | | | | | TSS | Total and dissolved metals | Total and dissolved mercury | Organochlorine pesticides | PCB Congeners | | | | | | | | |
| 1 | CS-RW-01-G-S-20150707 | 0955 / 7.7.15 | WAT | 8 | X | X | X | X | X | | | | | | | | |
| 2 | CS-RW-01-G-M-20150707 | 1010 / 7.7.15 | | 1 | X | | | | | | | | | | | | |
| 3 | CS-RW-01-G-B-20150707 | 1015 / 7.7.15 | | 1 | X | | | | | | | | | | | | |
| 4 | IA-RW-02-G-S-20150707 | 1030 / 7.7.15 | | 8 | X | X | X | X | X | | | | | | | | |
| 5 | IA-RW-02-G-M-20150707 | 1035 / 7.7.15 | | 1 | X | | | | | | | | | | | | |
| 6 | IA-RW-02-G-B-20150707 | 1040 / 7.7.15 | | 1 | X | | | | | | | | | | | | |
| 7 | IA-RW-03-G-S-20150707 | 1122 / 7.7.15 | | 8 | X | X | X | X | X | | | | | | | | |
| 8 | IA-RW-03-G-M-20150707 | 1127 / 7.7.15 | | 1 | X | | | | | | | | | | | | |
| 9 | IA-RW-03-G-B-20150707 | 1130 / 7.7.15 | | 1 | X | | | | | | | | | | | | |
| 10 | IA-RW-04-G-S-20150707 | 1200 / | | 8 | X | X | X | X | X | | | | | | | | |
| 11 | IA-RW-04-G-M-20150707 | 1210 / | | 1 | X | | | | | | | | | | | | |
| 12 | IA-RW-04-G-B-20150707 | 1215 / | | 1 | X | | | | | | | | | | | | |
| 13 | IA-RW-05-G-S-20150707 | 1450 / | | 8 | X | X | X | X | X | | | | | | | | |
| 14 | IA-RW-05-G-M-20150707 | 1458 / | | 1 | X | | | | | | | | | | | | |
| 15 | IA-RW-05-G-B-20150707 | 1505 / | | 1 | X | | | | | | | | | | | | |

Notes:

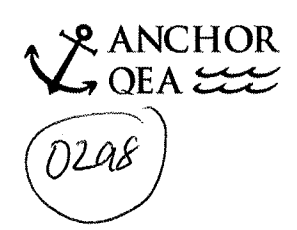
| | |
|------------------------|-------------------------------|
| Relinquished By: | Company: <u>Anchor OEA</u> |
| Signature/Printed Name | Date/Time: <u>7/7/15 1735</u> |

| | |
|------------------------|-------------------------------|
| Received By: | Company: <u>ECI</u> |
| Signature/Printed Name | Date/Time: <u>7/7/15 1735</u> |

| | |
|------------------------|------------|
| Relinquished By: | Company: |
| Signature/Printed Name | Date/Time: |

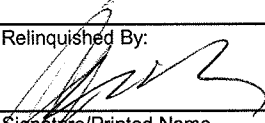
| | |
|------------------------|------------|
| Received By: | Company: |
| Signature/Printed Name | Date/Time: |

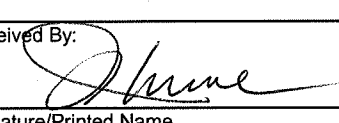
Chain of Custody Record & Laboratory Analysis Request

| | | | |
|---|-------------------|-----------------|---|
| Laboratory Number: _____ Date: <u>7/7/15</u> Project Name: GWMA-TMDL Compliance Monitoring Project Number: 141205-01.01 Project Manager: Andy Martin Phone Number: (949) 334-9630 Shipment Method: Courier | No. of Containers | Test Parameters |  |
|---|-------------------|-----------------|---|

| Line | Field Sample ID | Collection Date/Time | Matrix | No. of Containers | TSS | Total and dissolved metals | Total and dissolved mercury | Organochlorine pesticides | PCB Congeners | Test Parameters | Comments/Preservation |
|------|-------------------------|----------------------|--------|-------------------|-----|----------------------------|-----------------------------|---------------------------|---------------|-----------------|-----------------------|
| 1 | IA-RW-06-G-1 | | | | | | | | | | |
| 2 | IA-RW-1002-G-S-20150707 | 1030 / 7.7.15 | WAT | 8 | X | X | X | X | X | | |
| 3 | IA-RW-06-G-1-20150707 | 1415 / | | 8 | X | X | X | X | X | | |
| 4 | IA-RW-06-G-1A-20150707 | 1420 / | | 1 | X | | | | | | |
| 5 | IA-RW-06-G-B-20150707 | 1425 / | | 1 | X | | | | | | |
| 6 | FB-20150707 | 1305 / | | | | | X | | | | Field Blank |
| 7 | FB-20150707 | 1310 / | | | | | X | | | | Field Blank |
| 8 | FB-20150707 | 1315 / | | | | | X | | | | Field Blank |
| 9 | FB-20150707 | 1315 / | | | | | X | | | | Field Blank |
| 10 | FH-RW-07-G-S-20150707 | 1450 / | | 8 | X | X | X | X | X | | |
| 11 | FH-RW-07-G-M-20150707 | 1455 / | | 1 | X | | | | | | |
| 12 | FH-RW-07-G-B-20150707 | 1505 / | | 1 | X | | | | | | |
| 13 | IA-RW-06-G-M-20150707 | 1420 / | | 1 | X | | | | | | Lab duplicate |
| 14 | | | | | | | | | | | |
| 15 | | | | | | | | | | | |

Notes:

| | |
|---|-------------------------------|
| Relinquished By:  | Company: <u>Anchor QEA</u> |
| Signature/Printed Name | Date/Time: <u>7/7/15 1735</u> |

| | |
|--|-------------------------------|
| Received By:  | Company: <u>ECI</u> |
| Signature/Printed Name | Date/Time: <u>7/7/15 1735</u> |

| | |
|------------------------|------------------|
| Relinquished By: | Company: _____ |
| Signature/Printed Name | Date/Time: _____ |

| | |
|------------------------|------------------|
| Received By: | Company: _____ |
| Signature/Printed Name | Date/Time: _____ |

SAMPLE RECEIPT CHECKLIST

COOLER 1 OF 5

CLIENT: Anchor QEA

DATE: 07/07/2015

TEMPERATURE: (Criteria: 0.0°C - 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC5 (CF:-0.2°C); Temperature (w/o CF): 3.6 °C (w/ CF): 3.4 °C; Blank Sample

Sample(s) outside temperature criteria (PM/APM contacted by: _____)

Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: Air Filter

Checked by: 300

CUSTODY SEAL:

Cooler Present and Intact Present but Not Intact Not Present N/A

Checked by: 300

Sample(s) Present and Intact Present but Not Intact Not Present N/A

Checked by: 1013

SAMPLE CONDITION:

Chain-of-Custody (COC) document(s) received with samples Yes No N/A

COC document(s) received complete Yes No N/A

Sampling date Sampling time Matrix Number of containers

No analysis requested Not relinquished No relinquished date No relinquished time

Sampler's name indicated on COC Yes No N/A

Sample container label(s) consistent with COC Yes No N/A

Sample container(s) intact and in good condition Yes No N/A

Proper containers for analyses requested Yes No N/A

Sufficient volume/mass for analyses requested Yes No N/A

Samples received within holding time Yes No N/A

Aqueous samples for certain analyses received within 15-minute holding time

pH Residual Chlorine Dissolved Sulfide Dissolved Oxygen Yes No N/A

Proper preservation chemical(s) noted on COC and/or sample container Yes No N/A

Unpreserved aqueous sample(s) received for certain analyses

Volatile Organics Total Metals Dissolved Metals

Container(s) for certain analysis free of headspace Yes No N/A

Volatile Organics Dissolved Gases (RSK-175) Dissolved Oxygen (SM 4500)

Carbon Dioxide (SM 4500) Ferrous Iron (SM 3500) Hydrogen Sulfide (Hach)

Tedlar™ bag(s) free of condensation Yes No N/A

CONTAINER TYPE:

(Trip Blank Lot Number: _____)

Aqueous: VOA VOAh VOAna₂ 100PJ 100PJna₂ 125AGB 125AGBh 125AGBp 125PB

125PBz₂na 250AGB 250CGB 250CGBs 250PB 250PBn 500AGB 500AGJ 500AGJs

500PB 1AGB 1AGBna₂ 1AGBs 1PB 1PBna _____ _____ _____

Solid: 4ozCGJ 8ozCGJ 16ozCGJ Sleeve (_____) EnCores® (_____) TerraCores® (_____) _____

Air: Tedlar™ Canister Sorbent Tube PUF _____ Other Matrix (_____) _____ _____

Container: A = Amber, B = Bottle, C = Clear, E = Envelope, G = Glass, J = Jar, P = Plastic, and Z = Ziploc/Resealable Bag

Preservative: b = buffered, f = filtered, h = HCl, n = HNO₃, na = NaOH, na₂ = Na₂S₂O₃, p = H₃PO₄, Labeled/Checked by: 1013

s = H₂SO₄, u = ultra-pure, z₂na = Zn(CH₃CO₂)₂ + NaOH

Reviewed by: 802

* (-20) thru (-23) received 1 container

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SAMPLE RECEIPT CHECKLIST

COOLER 2 OF 5

CLIENT: Anchor QEA

DATE: 07/07/2015

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)
 Thermometer ID: SC5 (CF:-0.2°C); Temperature (w/o CF): 4.6 °C (w/ CF): 4.4 °C; Blank Sample
 Sample(s) outside temperature criteria (PM/APM contacted by: _____)
 Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling
 Sample(s) received at ambient temperature; placed on ice for transport by courier
 Ambient Temperature: Air Filter

Checked by: 300

CUSTODY SEAL:

Cooler Present and Intact Present but Not Intact Not Present N/A
 Sample(s) Present and Intact Present but Not Intact Not Present N/A

Checked by: 300

Checked by: 1013

SAMPLE CONDITION:

| | Yes | No | N/A |
|--|-------------------------------------|--------------------------|-------------------------------------|
| Chain-of-Custody (COC) document(s) received with samples | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| COC document(s) received complete | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> Sampling date <input type="checkbox"/> Sampling time <input type="checkbox"/> Matrix <input type="checkbox"/> Number of containers | | | |
| <input type="checkbox"/> No analysis requested <input type="checkbox"/> Not relinquished <input type="checkbox"/> No relinquished date <input type="checkbox"/> No relinquished time | | | |
| Sampler's name indicated on COC | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Sample container label(s) consistent with COC | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Sample container(s) intact and in good condition | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Proper containers for analyses requested | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Sufficient volume/mass for analyses requested | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Samples received within holding time | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Aqueous samples for certain analyses received within 15-minute holding time | | | |
| <input type="checkbox"/> pH <input type="checkbox"/> Residual Chlorine <input type="checkbox"/> Dissolved Sulfide <input type="checkbox"/> Dissolved Oxygen | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Proper preservation chemical(s) noted on COC and/or sample container | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Unpreserved aqueous sample(s) received for certain analyses | | | |
| <input type="checkbox"/> Volatile Organics <input checked="" type="checkbox"/> Total Metals <input checked="" type="checkbox"/> Dissolved Metals | | | |
| Container(s) for certain analysis free of headspace | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> Volatile Organics <input type="checkbox"/> Dissolved Gases (RSK-175) <input type="checkbox"/> Dissolved Oxygen (SM 4500) | | | |
| <input type="checkbox"/> Carbon Dioxide (SM 4500) <input type="checkbox"/> Ferrous Iron (SM 3500) <input type="checkbox"/> Hydrogen Sulfide (Hach) | | | |
| Tedlar™ bag(s) free of condensation | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

CONTAINER TYPE:

(Trip Blank Lot Number: _____)

Aqueous: VOA VOAh VOAna₂ 100PJ 100PJna₂ 125AGB 125AGBh 125AGBp 125PB
 125PBz₂na 250AGB 250CGB 250CGBs 250PB 250PBn 500AGB 500AGJ 500AGJs
 500PB 1AGB 1AGBna₂ 1AGBs 1PB 1PBna _____ _____ _____
Solid: 4ozCGJ 8ozCGJ 16ozCGJ Sleeve (_____) EnCores® (_____) TerraCores® (_____) _____
Air: Tedlar™ Canister Sorbent Tube PUF _____ **Other Matrix** (_____) _____ _____

Container: A = Amber, B = Bottle, C = Clear, E = Envelope, G = Glass, J = Jar, P = Plastic, and Z = Ziploc/Resealable Bag

Preservative: b = buffered, f = filtered, h = HCl, n = HNO₃, na = NaOH, na₂ = Na₂S₂O₃, p = H₃PO₄, Labeled/Checked by: 1013

s = H₂SO₄, u = ultra-pure, z₂na = Zn(CH₃CO₂)₂ + NaOH

Reviewed by: [Signature]

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SAMPLE RECEIPT CHECKLIST

COOLER 3 OF 5

CLIENT: Anchor QEA

DATE: 07/07/2015

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC5 (CF:-0.2°C); Temperature (w/o CF): 3.4 °C (w/ CF): 3.2 °C; Blank Sample

Sample(s) outside temperature criteria (PM/APM contacted by: _____)

Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: Air Filter

Checked by: 300

CUSTODY SEAL:

Cooler Present and Intact Present but Not Intact Not Present N/A

Checked by: 300

Sample(s) Present and Intact Present but Not Intact Not Present N/A

Checked by: 1013

SAMPLE CONDITION:

Yes No N/A

Chain-of-Custody (COC) document(s) received with samples

COC document(s) received complete

Sampling date Sampling time Matrix Number of containers

No analysis requested Not relinquished No relinquished date No relinquished time

Sampler's name indicated on COC

Sample container label(s) consistent with COC

Sample container(s) intact and in good condition

Proper containers for analyses requested

Sufficient volume/mass for analyses requested

Samples received within holding time

Aqueous samples for certain analyses received within 15-minute holding time

pH Residual Chlorine Dissolved Sulfide Dissolved Oxygen

Proper preservation chemical(s) noted on COC and/or sample container

Unpreserved aqueous sample(s) received for certain analyses

Volatile Organics Total Metals Dissolved Metals

Container(s) for certain analysis free of headspace

Volatile Organics Dissolved Gases (RSK-175) Dissolved Oxygen (SM 4500)

Carbon Dioxide (SM 4500) Ferrous Iron (SM 3500) Hydrogen Sulfide (Hach)

Tedlar™ bag(s) free of condensation

CONTAINER TYPE:

(Trip Blank Lot Number: _____)

Aqueous: VOA VOAh VOAna₂ 100PJ 100PJna₂ 125AGB 125AGBh 125AGBp 125PB

125PBz₂na 250AGB 250CGB 250CGBs 250PB 250PBn 500AGB 500AGJ 500AGJs

500PB 1AGB 1AGBna₂ 1AGBs 1PB 1PBna _____ _____ _____

Solid: 4ozCGJ 8ozCGJ 16ozCGJ Sleeve (_____) EnCores® (_____) TerraCores® (_____) _____

Air: Tedlar™ Canister Sorbent Tube PUF _____ Other Matrix (____): _____ _____

Container: A = Amber, B = Bottle, C = Clear, E = Envelope, G = Glass, J = Jar, P = Plastic, and Z = Ziploc/Resealable Bag

Preservative: b = buffered, f = filtered, h = HCl, n = HNO₃, na = NaOH, na₂ = Na₂S₂O₃, p = H₃PO₄, Labeled/Checked by: 1013

s = H₂SO₄, u = ultra-pure, z₂na = Zn(CH₃CO₂)₂ + NaOH

Reviewed by: 300

Return to Contents

SAMPLE RECEIPT CHECKLIST

COOLER 4 OF 5

CLIENT: Anchor QEA

DATE: 07/07/2015

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC5 (CF:-0.2°C); Temperature (w/o CF): 2.9 °C (w/ CF): 2.7 °C; Blank Sample

Sample(s) outside temperature criteria (PM/APM contacted by: _____)

Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: Air Filter

Checked by: 300

CUSTODY SEAL:

Cooler Present and Intact Present but Not Intact Not Present N/A

Sample(s) Present and Intact Present but Not Intact Not Present N/A

Checked by: 300

Checked by: 1013

SAMPLE CONDITION:

| | Yes | No | N/A |
|--|-------------------------------------|--------------------------|-------------------------------------|
| Chain-of-Custody (COC) document(s) received with samples | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| COC document(s) received complete | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> Sampling date <input type="checkbox"/> Sampling time <input type="checkbox"/> Matrix <input type="checkbox"/> Number of containers | | | |
| <input type="checkbox"/> No analysis requested <input type="checkbox"/> Not relinquished <input type="checkbox"/> No relinquished date <input type="checkbox"/> No relinquished time | | | |
| Sampler's name indicated on COC | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Sample container label(s) consistent with COC | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Sample container(s) intact and in good condition | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Proper containers for analyses requested | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Sufficient volume/mass for analyses requested | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Samples received within holding time | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Aqueous samples for certain analyses received within 15-minute holding time | | | |
| <input type="checkbox"/> pH <input type="checkbox"/> Residual Chlorine <input type="checkbox"/> Dissolved Sulfide <input type="checkbox"/> Dissolved Oxygen | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Proper preservation chemical(s) noted on COC and/or sample container | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Unpreserved aqueous sample(s) received for certain analyses | | | |
| <input type="checkbox"/> Volatile Organics <input checked="" type="checkbox"/> Total Metals <input checked="" type="checkbox"/> Dissolved Metals | | | |
| Container(s) for certain analysis free of headspace | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> Volatile Organics <input type="checkbox"/> Dissolved Gases (RSK-175) <input type="checkbox"/> Dissolved Oxygen (SM 4500) | | | |
| <input type="checkbox"/> Carbon Dioxide (SM 4500) <input type="checkbox"/> Ferrous Iron (SM 3500) <input type="checkbox"/> Hydrogen Sulfide (Hach) | | | |
| Tedlar™ bag(s) free of condensation | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

CONTAINER TYPE: (Trip Blank Lot Number: _____)

Aqueous: VOA VOA_h VOA_{na2} 100PJ 100PJ_{na2} 125AGB 125AGB_h 125AGB_p 125PB

125PB_z 250AGB 250CGB 250CGB_s 250PB 250PB_n 500AGB 500AGJ 500AGJ_s

500PB 1AGB 1AGB_{na2} 1AGB_s 1PB 1PB_{na} _____ _____ _____

Solid: 4ozCGJ 8ozCGJ 16ozCGJ Sleeve (_____) EnCores® (_____) TerraCores® (_____) _____

Air: Tedlar™ Canister Sorbent Tube PUF _____ **Other Matrix** (____): _____ _____

Container: A = Amber, B = Bottle, C = Clear, E = Envelope, G = Glass, J = Jar, P = Plastic, and Z = Ziploc/Resealable Bag

Preservative: b = buffered, f = filtered, h = HCl, n = HNO₃, na = NaOH, na₂ = Na₂S₂O₃, p = H₃PO₄, Labeled/Checked by: 1013

s = H₂SO₄, u = ultra-pure, z_{na} = Zn(CH₃CO₂)₂ + NaOH Reviewed by: 862

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SAMPLE RECEIPT CHECKLIST

COOLER 5 OF 5

CLIENT: Anchor QEA

DATE: 07/07/2015

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC5 (CF:-0.2°C); Temperature (w/o CF): 3.1 °C (w/ CF): 2.9 °C; Blank Sample

Sample(s) outside temperature criteria (PM/APM contacted by: _____)

Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: Air Filter

Checked by: 300

CUSTODY SEAL:

Cooler Present and Intact Present but Not Intact Not Present N/A

Checked by: 300

Sample(s) Present and Intact Present but Not Intact Not Present N/A

Checked by: 1013

SAMPLE CONDITION:

| | Yes | No | N/A |
|--|-------------------------------------|--------------------------|-------------------------------------|
| Chain-of-Custody (COC) document(s) received with samples | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| COC document(s) received complete | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> Sampling date <input type="checkbox"/> Sampling time <input type="checkbox"/> Matrix <input type="checkbox"/> Number of containers | | | |
| <input type="checkbox"/> No analysis requested <input type="checkbox"/> Not relinquished <input type="checkbox"/> No relinquished date <input type="checkbox"/> No relinquished time | | | |
| Sampler's name indicated on COC | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Sample container label(s) consistent with COC | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Sample container(s) intact and in good condition | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Proper containers for analyses requested | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Sufficient volume/mass for analyses requested | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Samples received within holding time | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Aqueous samples for certain analyses received within 15-minute holding time | | | |
| <input type="checkbox"/> pH <input type="checkbox"/> Residual Chlorine <input type="checkbox"/> Dissolved Sulfide <input type="checkbox"/> Dissolved Oxygen | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Proper preservation chemical(s) noted on COC and/or sample container | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Unpreserved aqueous sample(s) received for certain analyses | | | |
| <input type="checkbox"/> Volatile Organics <input checked="" type="checkbox"/> Total Metals <input checked="" type="checkbox"/> Dissolved Metals | | | |
| Container(s) for certain analysis free of headspace | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> Volatile Organics <input type="checkbox"/> Dissolved Gases (RSK-175) <input type="checkbox"/> Dissolved Oxygen (SM 4500) | | | |
| <input type="checkbox"/> Carbon Dioxide (SM 4500) <input type="checkbox"/> Ferrous Iron (SM 3500) <input type="checkbox"/> Hydrogen Sulfide (Hach) | | | |
| Tedlar™ bag(s) free of condensation | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

CONTAINER TYPE:

(Trip Blank Lot Number: _____)

Aqueous: VOA VOAh VOAn₂ 100PJ 100PJn₂ 125AGB 125AGBh 125AGBp 125PB
 125PBz_{na} 250AGB 250CGB 250CGBs 250PB 250PBn 500AGB 500AGJ 500AGJs
 500PB 1AGB 1AGBn₂ 1AGBs 1PB 1PBna _____ _____ _____ _____

Solid: 4ozCGJ 8ozCGJ 16ozCGJ Sleeve (_____) EnCores® (_____) TerraCores® (_____) _____

Air: Tedlar™ Canister Sorbent Tube PUF _____ **Other Matrix** (_____) : _____ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO₃, **na** = NaOH, **na₂** = Na₂S₂O₃, **p** = H₃PO₄, Labeled/Checked by: 1013

s = H₂SO₄, **u** = ultra-pure, **z_{na}** = Zn(CH₃CO₂)₂ + NaOH Reviewed by: 802

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SAMPLE ANOMALY REPORT

DATE: 07 / 7 / 2015

SAMPLES, CONTAINERS, AND LABELS:

- Sample(s) NOT RECEIVED but listed on COC
- Sample(s) received but NOT LISTED on COC
- Holding time expired (list client or ECI sample ID and analysis)
- Insufficient sample amount for requested analysis (list analysis)
- Improper container(s) used (list analysis)
- Improper preservative used (list analysis)
- No preservative noted on COC or label (list analysis and notify lab)
- Sample container(s) not labeled
- Client sample label(s) illegible (list container type and analysis)
- Client sample label(s) do not match COC (comment)
 - Project information
 - Client sample ID
 - Sampling date and/or time
 - Number of container(s)
 - Requested analysis
- Sample container(s) compromised (comment)
 - Broken
 - Water present in sample container
- Air sample container(s) compromised (comment)
 - Flat
 - Very low in volume
 - Leaking (not transferred; duplicate bag submitted)
 - Leaking (transferred into ECI Tedlar™ bags*)
 - Leaking (transferred into client's Tedlar™ bags*)

* Transferred at client's request.

Comments

(-16) Received 1-1 liter plastic bottle for TSS labeled as IA-RW-06-G-M-20150707
7/7/15 10:30

MISCELLANEOUS: (Describe)

Comments

HEADSPACE:

(Containers with bubble > 6 mm or ¼ inch for volatile organic or dissolved gas analysis)

(Containers with bubble for other analysis)

| ECI Sample ID | ECI Container ID | Total Number** | ECI Sample ID | ECI Container ID | Total Number** |
|---------------|------------------|----------------|---------------|------------------|----------------|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

| ECI Sample ID | ECI Container ID | Total Number** | Requested Analysis |
|---------------|------------------|----------------|--------------------|
| | | | |
| | | | |
| | | | |
| | | | |

Comments: _____

Reported by: 1013
Reviewed by: 862

** Record the total number of containers (i.e., vials or bottles) for the affected sample.



Calscience



WORK ORDER NUMBER: 15-07-0283

The difference is service



AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: ANCHOR QEA, LLC

Client Project Name: GWMA - TMDL Compliance Monitoring

Attention: Andy Martin
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Approved for release on 07/21/2015 by:
Danielle Gonsman
Project Manager

ResultLink ▶

Email your PM ▶



Eurofins Calscience, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

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Client Project Name: GWMA - TMDL Compliance Monitoring
 Work Order Number: 15-07-0283

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Work Order Narrative

Work Order: 15-07-0283

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Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 07/07/15. They were assigned to Work Order 15-07-0283.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of ≤ 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.



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Sample Summary

| | |
|------------------------------|---|
| Client: ANCHOR QEA, LLC | Work Order: 15-07-0283 |
| 27201 Puerta Real, Suite 350 | Project Name: GWMA - TMDL Compliance Monitoring |
| Mission Viejo, CA 92691-8306 | PO Number: |
| | Date/Time Received: 07/07/15 14:00 |
| | Number of Containers: 65 |

Attn: Andy Martin

| Sample Identification | Lab Number | Collection Date and Time | Number of Containers | Matrix |
|-------------------------------|---------------|--------------------------|----------------------|-----------|
| LE-RW-22-G-S-20150707 | 15-07-0283-1 | 07/07/15 08:20 | 8 | Sea Water |
| LE-RW-22-G-M-20150707 | 15-07-0283-2 | 07/07/15 08:20 | 1 | Sea Water |
| LE-RW-22-G-B-20150707 | 15-07-0283-3 | 07/07/15 08:20 | 1 | Sea Water |
| LE-RW-1021-G-S-20150707 | 15-07-0283-4 | 07/07/15 08:55 | 1 | Sea Water |
| LE-RW-21-G-S-20150707 | 15-07-0283-5 | 07/07/15 08:55 | 8 | Sea Water |
| LE-RW-21-G-M-20150707 | 15-07-0283-6 | 07/07/15 08:55 | 1 | Sea Water |
| LE-RW-21-G-B-20150707 | 15-07-0283-7 | 07/07/15 08:55 | 1 | Sea Water |
| SP-RW-18-G-S-20150707 | 15-07-0283-8 | 07/07/15 09:20 | 8 | Sea Water |
| SP-RW-18-G-M-20150707 | 15-07-0283-9 | 07/07/15 09:20 | 2 | Sea Water |
| SP-RW-18-G-B-20150707 | 15-07-0283-10 | 07/07/15 09:20 | 1 | Sea Water |
| OB-RW-17-G-S-20150707 | 15-07-0283-11 | 07/07/15 10:20 | 8 | Sea Water |
| OB-RW-17-G-M-20150707 | 15-07-0283-12 | 07/07/15 10:20 | 1 | Sea Water |
| OB-RW-17-G-B-20150707 | 15-07-0283-13 | 07/07/15 10:20 | 1 | Sea Water |
| OB-RW-1017-G-S-20150707 | 15-07-0283-14 | 07/07/15 10:20 | 1 | Sea Water |
| SP-RW-20-G-S-20150707 | 15-07-0283-15 | 07/07/15 11:20 | 8 | Sea Water |
| SP-RW-20-G-M-20150707 | 15-07-0283-16 | 07/07/15 11:20 | 1 | Sea Water |
| SP-RW-20-G-B-20150707 | 15-07-0283-17 | 07/07/15 11:20 | 1 | Sea Water |
| SP-RW-19-G-S-20150707 | 15-07-0283-18 | 07/07/15 11:50 | 8 | Sea Water |
| SP-RW-19-G-M-20150707 | 15-07-0283-19 | 07/07/15 11:50 | 1 | Sea Water |
| SP-RW-19-G-B-20150707 | 15-07-0283-20 | 07/07/15 11:50 | 1 | Sea Water |
| EB-20150707 | 15-07-0283-21 | 07/07/15 12:30 | 1 | Sea Water |
| SP-RW-18-G-M-20150707-LAB DUP | 15-07-0283-22 | 07/07/15 09:20 | 1 | Sea Water |


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Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 07/07/15
Work Order: 15-07-0283
Preparation: N/A
Method: SM 2540 D
Units: mg/L

Project: GWMA - TMDL Compliance Monitoring

Page 1 of 4

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| LE-RW-22-G-S-20150707 | 15-07-0283-1-H | 07/07/15 08:20 | Sea Water | N/A | 07/08/15 | 07/08/15 19:30 | F0708TSSL2 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 3.6 | 1.0 | 0.83 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| LE-RW-22-G-M-20150707 | 15-07-0283-2-A | 07/07/15 08:20 | Sea Water | N/A | 07/08/15 | 07/08/15 19:30 | F0708TSSL2 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 6.2 | 1.0 | 0.83 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| LE-RW-22-G-B-20150707 | 15-07-0283-3-A | 07/07/15 08:20 | Sea Water | N/A | 07/08/15 | 07/08/15 19:30 | F0708TSSL2 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 9.2 | 1.0 | 0.83 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-------------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| LE-RW-1021-G-S-20150707 | 15-07-0283-4-A | 07/07/15 08:55 | Sea Water | N/A | 07/08/15 | 07/08/15 19:30 | F0708TSSL2 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 6.6 | 1.0 | 0.83 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| LE-RW-21-G-S-20150707 | 15-07-0283-5-H | 07/07/15 08:55 | Sea Water | N/A | 07/08/15 | 07/08/15 19:30 | F0708TSSL2 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 2.8 | 1.0 | 0.83 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| LE-RW-21-G-M-20150707 | 15-07-0283-6-A | 07/07/15 08:55 | Sea Water | N/A | 07/08/15 | 07/08/15 19:30 | F0708TSSL2 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 6.4 | 1.0 | 0.83 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 07/07/15
Work Order: 15-07-0283
Preparation: N/A
Method: SM 2540 D
Units: mg/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| LE-RW-21-G-B-20150707 | 15-07-0283-7-A | 07/07/15 08:55 | Sea Water | N/A | 07/08/15 | 07/08/15 19:30 | F0708TSSL2 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 8.2 | 1.0 | 0.83 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| SP-RW-18-G-S-20150707 | 15-07-0283-8-H | 07/07/15 09:20 | Sea Water | N/A | 07/08/15 | 07/08/15 19:30 | F0708TSSL2 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 2.9 | 1.0 | 0.83 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| SP-RW-18-G-M-20150707 | 15-07-0283-9-A | 07/07/15 09:20 | Sea Water | N/A | 07/09/15 | 07/09/15 20:00 | F0709TSSL1 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | ND | 1.0 | 0.83 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| SP-RW-18-G-B-20150707 | 15-07-0283-10-A | 07/07/15 09:20 | Sea Water | N/A | 07/09/15 | 07/09/15 20:00 | F0709TSSL1 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 2.0 | 1.0 | 0.83 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OB-RW-17-G-S-20150707 | 15-07-0283-11-H | 07/07/15 10:20 | Sea Water | N/A | 07/09/15 | 07/09/15 20:00 | F0709TSSL1 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | ND | 1.0 | 0.83 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OB-RW-17-G-M-20150707 | 15-07-0283-12-A | 07/07/15 10:20 | Sea Water | N/A | 07/09/15 | 07/09/15 20:00 | F0709TSSL1 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | ND | 1.0 | 0.83 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 07/07/15
Work Order: 15-07-0283
Preparation: N/A
Method: SM 2540 D
Units: mg/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OB-RW-17-G-B-20150707 | 15-07-0283-13-A | 07/07/15 10:20 | Sea Water | N/A | 07/09/15 | 07/09/15 20:00 | F0709TSSL1 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | ND | 1.0 | 0.83 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-------------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OB-RW-1017-G-S-20150707 | 15-07-0283-14-A | 07/07/15 10:20 | Sea Water | N/A | 07/09/15 | 07/09/15 20:00 | F0709TSSL1 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | ND | 1.0 | 0.83 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| SP-RW-20-G-S-20150707 | 15-07-0283-15-H | 07/07/15 11:20 | Sea Water | N/A | 07/09/15 | 07/09/15 20:00 | F0709TSSL1 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | ND | 1.0 | 0.83 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| SP-RW-20-G-M-20150707 | 15-07-0283-16-A | 07/07/15 11:20 | Sea Water | N/A | 07/09/15 | 07/09/15 20:00 | F0709TSSL1 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | ND | 1.0 | 0.83 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| SP-RW-20-G-B-20150707 | 15-07-0283-17-A | 07/07/15 11:20 | Sea Water | N/A | 07/09/15 | 07/09/15 20:00 | F0709TSSL1 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | ND | 1.0 | 0.83 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| SP-RW-19-G-S-20150707 | 15-07-0283-18-H | 07/07/15 11:50 | Sea Water | N/A | 07/09/15 | 07/09/15 20:00 | F0709TSSL1 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | ND | 1.0 | 0.83 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 07/07/15
Work Order: 15-07-0283
Preparation: N/A
Method: SM 2540 D
Units: mg/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| SP-RW-19-G-M-20150707 | 15-07-0283-19-A | 07/07/15 11:50 | Sea Water | N/A | 07/09/15 | 07/09/15 20:00 | F0709TSSL1 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | ND | 1.0 | 0.83 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| SP-RW-19-G-B-20150707 | 15-07-0283-20-A | 07/07/15 11:50 | Sea Water | N/A | 07/09/15 | 07/09/15 20:00 | F0709TSSL1 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | ND | 1.0 | 0.83 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-------------------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| SP-RW-18-G-M-20150707-LAB DUP | 15-07-0283-22-B | 07/07/15 09:20 | Sea Water | N/A | 07/09/15 | 07/09/15 20:00 | F0709TSSL1 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | ND | 1.0 | 0.83 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|---------|------------|---------------|--------------------|-------------|
| Method Blank | 099-09-010-7222 | N/A | Aqueous | N/A | 07/08/15 | 07/08/15 19:30 | F0708TSSL2 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | ND | 1.0 | 0.83 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|---------|------------|---------------|--------------------|-------------|
| Method Blank | 099-09-010-7224 | N/A | Aqueous | N/A | 07/09/15 | 07/09/15 20:00 | F0709TSSL1 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | ND | 1.0 | 0.83 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 07/07/15
Work Order: 15-07-0283
Preparation: EPA 1631E Total
Method: EPA 1631E
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

Page 1 of 2

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| LE-RW-22-G-S-20150707 | 15-07-0283-1-B | 07/07/15 08:20 | Sea Water | Hg/AF 1 | 07/16/15 | 07/16/15 00:00 | 150716L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|---------|----------|----------|------|------------|
| Mercury | 0.00114 | 0.000500 | 0.000113 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| LE-RW-21-G-S-20150707 | 15-07-0283-5-B | 07/07/15 08:55 | Sea Water | Hg/AF 1 | 07/16/15 | 07/16/15 00:00 | 150716L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|---------|----------|----------|------|------------|
| Mercury | 0.00112 | 0.000500 | 0.000113 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| SP-RW-18-G-S-20150707 | 15-07-0283-8-B | 07/07/15 09:20 | Sea Water | Hg/AF 1 | 07/16/15 | 07/16/15 00:00 | 150716L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|----------|----------|----------|------|------------|
| Mercury | 0.000988 | 0.000500 | 0.000113 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OB-RW-17-G-S-20150707 | 15-07-0283-11-B | 07/07/15 10:20 | Sea Water | Hg/AF 1 | 07/16/15 | 07/16/15 00:00 | 150716L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|----------|----------|----------|------|------------|
| Mercury | 0.000412 | 0.000500 | 0.000113 | 1.00 | J |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| SP-RW-20-G-S-20150707 | 15-07-0283-15-B | 07/07/15 11:20 | Sea Water | Hg/AF 1 | 07/16/15 | 07/16/15 00:00 | 150716L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|----------|----------|----------|------|------------|
| Mercury | 0.000651 | 0.000500 | 0.000113 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| SP-RW-19-G-S-20150707 | 15-07-0283-18-B | 07/07/15 11:50 | Sea Water | Hg/AF 1 | 07/16/15 | 07/16/15 00:00 | 150716L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|----------|----------|----------|------|------------|
| Mercury | 0.000874 | 0.000500 | 0.000113 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 07/07/15
 Work Order: 15-07-0283
 Preparation: EPA 1631E Total
 Method: EPA 1631E
 Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

Page 2 of 2

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| EB-20150707 | 15-07-0283-21-A | 07/07/15 12:30 | Sea Water | Hg/AF 1 | 07/16/15 | 07/16/15 00:00 | 150716L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|----------|----------|------|------------|
| Mercury | ND | 0.000500 | 0.000113 | 1.00 | |

| Method Blank | 099-15-224-93 | N/A | Aqueous | Hg/AF 1 | 07/16/15 | 07/16/15 00:00 | 150716L01 |
|--------------|---------------|-----|---------|---------|----------|----------------|-----------|
|--------------|---------------|-----|---------|---------|----------|----------------|-----------|

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|----------|----------|------|------------|
| Mercury | ND | 0.000500 | 0.000113 | 1.00 | |

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 07/07/15
Work Order: 15-07-0283
Preparation: Filtered
Method: EPA 1631E
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| LE-RW-22-G-S-20150707 | 15-07-0283-1-A | 07/07/15 08:20 | Sea Water | Hg/AF 1 | 07/16/15 | 07/16/15 00:00 | 150716L01F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|----------|----------|----------|------|------------|
| Mercury | 0.000319 | 0.000500 | 0.000113 | 1.00 | J |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| LE-RW-21-G-S-20150707 | 15-07-0283-5-A | 07/07/15 08:55 | Sea Water | Hg/AF 1 | 07/16/15 | 07/16/15 00:00 | 150716L01F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|----------|----------|------|------------|
| Mercury | ND | 0.000500 | 0.000113 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| SP-RW-18-G-S-20150707 | 15-07-0283-8-A | 07/07/15 09:20 | Sea Water | Hg/AF 1 | 07/16/15 | 07/16/15 00:00 | 150716L01F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|----------|----------|------|------------|
| Mercury | ND | 0.000500 | 0.000113 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OB-RW-17-G-S-20150707 | 15-07-0283-11-A | 07/07/15 10:20 | Sea Water | Hg/AF 1 | 07/16/15 | 07/16/15 00:00 | 150716L01F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|----------|----------|------|------------|
| Mercury | ND | 0.000500 | 0.000113 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| SP-RW-20-G-S-20150707 | 15-07-0283-15-A | 07/07/15 11:20 | Sea Water | Hg/AF 1 | 07/16/15 | 07/16/15 00:00 | 150716L01F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|----------|----------|----------|------|------------|
| Mercury | 0.000737 | 0.000500 | 0.000113 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| SP-RW-19-G-S-20150707 | 15-07-0283-18-A | 07/07/15 11:50 | Sea Water | Hg/AF 1 | 07/16/15 | 07/16/15 00:00 | 150716L01F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|----------|----------|------|------------|
| Mercury | ND | 0.000500 | 0.000113 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 07/07/15
 Work Order: 15-07-0283
 Preparation: Filtered
 Method: EPA 1631E
 Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

Page 2 of 2

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|---------|------------|---------------|--------------------|-------------|
| Method Blank | 099-15-226-66 | N/A | Aqueous | Hg/AF 1 | 07/16/15 | 07/16/15 00:00 | 150716L01F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|---------------|-----------|------------|-----------|-------------------|
| Mercury | ND | 0.000500 | 0.000113 | 1.00 | |


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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 07/07/15
Work Order: 15-07-0283
Preparation: EPA 3005A Total
Method: EPA 1640
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| LE-RW-22-G-S-20150707 | 15-07-0283-1-D | 07/07/15 08:20 | Sea Water | ICP/MS 05 | 07/10/15 | 07/11/15 02:57 | 150710L02 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0495 | 0.0300 | 0.00567 | 1.00 | |
| Chromium | 0.422 | 0.500 | 0.164 | 1.00 | J |
| Copper | 3.30 | 0.0300 | 0.00898 | 1.00 | |
| Lead | 0.410 | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 24.9 | 0.500 | 0.0736 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| LE-RW-21-G-S-20150707 | 15-07-0283-5-D | 07/07/15 08:55 | Sea Water | ICP/MS 05 | 07/10/15 | 07/11/15 03:05 | 150710L02 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0370 | 0.0300 | 0.00567 | 1.00 | |
| Chromium | 0.355 | 0.500 | 0.164 | 1.00 | J |
| Copper | 2.02 | 0.0300 | 0.00898 | 1.00 | |
| Lead | 0.245 | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 12.2 | 0.500 | 0.0736 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| SP-RW-18-G-S-20150707 | 15-07-0283-8-D | 07/07/15 09:20 | Sea Water | ICP/MS 05 | 07/10/15 | 07/11/15 03:13 | 150710L02 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0279 | 0.0300 | 0.00567 | 1.00 | J |
| Chromium | 0.419 | 0.500 | 0.164 | 1.00 | J |
| Copper | 1.79 | 0.0300 | 0.00898 | 1.00 | |
| Lead | 0.332 | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 15.6 | 0.500 | 0.0736 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 07/07/15
Work Order: 15-07-0283
Preparation: EPA 3005A Total
Method: EPA 1640
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

Page 2 of 3

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OB-RW-17-G-S-20150707 | 15-07-0283-11-D | 07/07/15 10:20 | Sea Water | ICP/MS 05 | 07/10/15 | 07/11/15 03:21 | 150710L02 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0185 | 0.0300 | 0.00567 | 1.00 | J |
| Chromium | 0.385 | 0.500 | 0.164 | 1.00 | J |
| Copper | 0.856 | 0.0300 | 0.00898 | 1.00 | |
| Lead | 0.0716 | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 3.01 | 0.500 | 0.0736 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| SP-RW-20-G-S-20150707 | 15-07-0283-15-D | 07/07/15 11:20 | Sea Water | ICP/MS 05 | 07/10/15 | 07/11/15 03:29 | 150710L02 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0178 | 0.0300 | 0.00567 | 1.00 | J |
| Chromium | 0.392 | 0.500 | 0.164 | 1.00 | J |
| Copper | 0.855 | 0.0300 | 0.00898 | 1.00 | |
| Lead | 0.0945 | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 2.01 | 0.500 | 0.0736 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| SP-RW-19-G-S-20150707 | 15-07-0283-18-D | 07/07/15 11:50 | Sea Water | ICP/MS 05 | 07/10/15 | 07/11/15 03:37 | 150710L02 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0217 | 0.0300 | 0.00567 | 1.00 | J |
| Chromium | 0.368 | 0.500 | 0.164 | 1.00 | J |
| Copper | 0.827 | 0.0300 | 0.00898 | 1.00 | |
| Lead | 0.109 | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 2.55 | 0.500 | 0.0736 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 07/07/15
Work Order: 15-07-0283
Preparation: EPA 3005A Total
Method: EPA 1640
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| EB-20150707 | 15-07-0283-21-C | 07/07/15 12:30 | Sea Water | ICP/MS 05 | 07/10/15 | 07/11/15 01:30 | 150710L02 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | ND | 0.0300 | 0.00567 | 1.00 | |
| Chromium | ND | 0.500 | 0.164 | 1.00 | |
| Copper | 0.654 | 0.0300 | 0.00898 | 1.00 | |
| Lead | 0.0441 | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 1.17 | 0.500 | 0.0736 | 1.00 | |

| Method Blank | 099-13-067-524 | N/A | Aqueous | ICP/MS 05 | 07/10/15 | 07/10/15 17:01 | 150710L02 |
|--------------|----------------|-----|---------|-----------|----------|-------------------|-----------|
|--------------|----------------|-----|---------|-----------|----------|-------------------|-----------|

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | ND | 0.0300 | 0.00567 | 1.00 | |
| Chromium | ND | 0.500 | 0.164 | 1.00 | |
| Copper | ND | 0.0300 | 0.00898 | 1.00 | |
| Lead | ND | 0.0300 | 0.0135 | 1.00 | |
| Zinc | ND | 0.500 | 0.0736 | 1.00 | |

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 07/07/15
Work Order: 15-07-0283
Preparation: EPA 3005A Filt.
Method: EPA 1640
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| LE-RW-22-G-S-20150707 | 15-07-0283-1-C | 07/07/15 08:20 | Sea Water | ICP/MS 05 | 07/10/15 | 07/11/15 01:38 | 150710L02F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0334 | 0.0300 | 0.00567 | 1.00 | |
| Chromium | 0.323 | 0.500 | 0.164 | 1.00 | J |
| Copper | 2.50 | 0.0300 | 0.00898 | 1.00 | |
| Lead | 0.0781 | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 27.7 | 0.500 | 0.0736 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| LE-RW-21-G-S-20150707 | 15-07-0283-5-C | 07/07/15 08:55 | Sea Water | ICP/MS 05 | 07/10/15 | 07/11/15 01:45 | 150710L02F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0283 | 0.0300 | 0.00567 | 1.00 | J |
| Chromium | 0.309 | 0.500 | 0.164 | 1.00 | J |
| Copper | 1.38 | 0.0300 | 0.00898 | 1.00 | |
| Lead | 0.0564 | 0.0300 | 0.0135 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| LE-RW-21-G-S-20150707 | 15-07-0283-5-C | 07/07/15 08:55 | Sea Water | ICP/MS 05 | 07/10/15 | 07/13/15 19:00 | 150710L02F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|-------|--------|------|------------|
| Zinc | 8.58 | 0.500 | 0.0736 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| SP-RW-18-G-S-20150707 | 15-07-0283-8-C | 07/07/15 09:20 | Sea Water | ICP/MS 05 | 07/10/15 | 07/11/15 01:53 | 150710L02F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0200 | 0.0300 | 0.00567 | 1.00 | J |
| Chromium | 0.325 | 0.500 | 0.164 | 1.00 | J |
| Copper | 1.05 | 0.0300 | 0.00898 | 1.00 | |
| Lead | 0.0424 | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 14.6 | 0.500 | 0.0736 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 07/07/15
Work Order: 15-07-0283
Preparation: EPA 3005A Filt.
Method: EPA 1640
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OB-RW-17-G-S-20150707 | 15-07-0283-11-C | 07/07/15 10:20 | Sea Water | ICP/MS 05 | 07/10/15 | 07/11/15 02:33 | 150710L02F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0167 | 0.0300 | 0.00567 | 1.00 | J |
| Chromium | 0.367 | 0.500 | 0.164 | 1.00 | J |
| Copper | 0.592 | 0.0300 | 0.00898 | 1.00 | |
| Lead | 0.0181 | 0.0300 | 0.0135 | 1.00 | J |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OB-RW-17-G-S-20150707 | 15-07-0283-11-C | 07/07/15 10:20 | Sea Water | ICP/MS 05 | 07/10/15 | 07/13/15 19:08 | 150710L02F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|-------|--------|------|------------|
| Zinc | 1.88 | 0.500 | 0.0736 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| SP-RW-20-G-S-20150707 | 15-07-0283-15-C | 07/07/15 11:20 | Sea Water | ICP/MS 05 | 07/10/15 | 07/11/15 02:41 | 150710L02F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0152 | 0.0300 | 0.00567 | 1.00 | J |
| Chromium | 0.363 | 0.500 | 0.164 | 1.00 | J |
| Copper | 0.683 | 0.0300 | 0.00898 | 1.00 | |
| Lead | 0.0600 | 0.0300 | 0.0135 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| SP-RW-20-G-S-20150707 | 15-07-0283-15-C | 07/07/15 11:20 | Sea Water | ICP/MS 05 | 07/10/15 | 07/13/15 19:16 | 150710L02F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|-------|--------|------|------------|
| Zinc | 1.50 | 0.500 | 0.0736 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| SP-RW-19-G-S-20150707 | 15-07-0283-18-C | 07/07/15 11:50 | Sea Water | ICP/MS 05 | 07/10/15 | 07/11/15 02:49 | 150710L02F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0195 | 0.0300 | 0.00567 | 1.00 | J |
| Chromium | 0.348 | 0.500 | 0.164 | 1.00 | J |
| Copper | 0.570 | 0.0300 | 0.00898 | 1.00 | |
| Lead | 0.0264 | 0.0300 | 0.0135 | 1.00 | J |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 07/07/15
Work Order: 15-07-0283
Preparation: EPA 3005A Filt.
Method: EPA 1640
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

Page 3 of 3

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| SP-RW-19-G-S-20150707 | 15-07-0283-18-C | 07/07/15 11:50 | Sea Water | ICP/MS 05 | 07/10/15 | 07/13/15 19:24 | 150710L02F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|---------------|-----------|------------|-----------|-------------------|
| Zinc | 2.35 | 0.500 | 0.0736 | 1.00 | |

| Method Blank | 099-15-823-160 | N/A | Aqueous | ICP/MS 05 | 07/10/15 | 07/10/15 17:01 | 150710L02F |
|--------------|----------------|-----|---------|-----------|----------|-------------------|------------|
|--------------|----------------|-----|---------|-----------|----------|-------------------|------------|

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|---------------|-----------|------------|-----------|-------------------|
| Cadmium | ND | 0.0300 | 0.00567 | 1.00 | |
| Chromium | ND | 0.500 | 0.164 | 1.00 | |
| Copper | ND | 0.0300 | 0.00898 | 1.00 | |
| Lead | ND | 0.0300 | 0.0135 | 1.00 | |
| Zinc | ND | 0.500 | 0.0736 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 07/07/15
Work Order: 15-07-0283
Preparation: EPA 3510C
Method: EPA 8081A
Units: ng/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| LE-RW-22-G-S-20150707 | 15-07-0283-1-F | 07/07/15 08:20 | Sea Water | GC 44 | 07/08/15 | 07/10/15 13:51 | 150708L11 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------------------------|----------|----------------|------------|------|------------|
| 2,4'-DDD | ND | 2.0 | 0.57 | 1.00 | |
| 2,4'-DDE | ND | 2.0 | 0.48 | 1.00 | |
| 2,4'-DDT | ND | 2.0 | 0.67 | 1.00 | |
| 4,4'-DDD | ND | 2.0 | 0.54 | 1.00 | |
| 4,4'-DDE | ND | 2.0 | 0.47 | 1.00 | |
| 4,4'-DDT | ND | 2.0 | 0.54 | 1.00 | |
| Alpha Chlordane | ND | 2.0 | 0.48 | 1.00 | |
| Cis-nonachlor | ND | 2.0 | 0.49 | 1.00 | |
| Dieldrin | ND | 2.0 | 0.54 | 1.00 | |
| Gamma Chlordane | ND | 2.0 | 0.48 | 1.00 | |
| Oxychlordane | ND | 2.0 | 0.61 | 1.00 | |
| Toxaphene | ND | 25 | 8.1 | 1.00 | |
| Trans-nonachlor | ND | 2.0 | 0.55 | 1.00 | |
| Surrogate | Rec. (%) | Control Limits | Qualifiers | | |
| Decachlorobiphenyl | 100 | 50-150 | | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 110 | 50-150 | | | |

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 07/07/15
Work Order: 15-07-0283
Preparation: EPA 3510C
Method: EPA 8081A
Units: ng/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| LE-RW-21-G-S-20150707 | 15-07-0283-5-G | 07/07/15 08:55 | Sea Water | GC 44 | 07/08/15 | 07/10/15 14:06 | 150708L11 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------------------------|----------|----------------|------------|------|------------|
| 2,4'-DDD | ND | 2.0 | 0.58 | 1.00 | |
| 2,4'-DDE | ND | 2.0 | 0.48 | 1.00 | |
| 2,4'-DDT | ND | 2.0 | 0.68 | 1.00 | |
| 4,4'-DDD | ND | 2.0 | 0.54 | 1.00 | |
| 4,4'-DDE | ND | 2.0 | 0.47 | 1.00 | |
| 4,4'-DDT | ND | 2.0 | 0.55 | 1.00 | |
| Alpha Chlordane | ND | 2.0 | 0.49 | 1.00 | |
| Cis-nonachlor | ND | 2.0 | 0.50 | 1.00 | |
| Dieldrin | ND | 2.0 | 0.54 | 1.00 | |
| Gamma Chlordane | ND | 2.0 | 0.48 | 1.00 | |
| Oxychlordane | ND | 2.0 | 0.62 | 1.00 | |
| Toxaphene | ND | 25 | 8.2 | 1.00 | |
| Trans-nonachlor | ND | 2.0 | 0.55 | 1.00 | |
| Surrogate | Rec. (%) | Control Limits | Qualifiers | | |
| Decachlorobiphenyl | 95 | 50-150 | | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 103 | 50-150 | | | |

 Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 07/07/15
Work Order: 15-07-0283
Preparation: EPA 3510C
Method: EPA 8081A
Units: ng/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| SP-RW-18-G-S-20150707 | 15-07-0283-8-G | 07/07/15 09:20 | Sea Water | GC 44 | 07/08/15 | 07/10/15 14:20 | 150708L11 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------------------------|----------|----------------|------------|------|------------|
| 2,4'-DDD | ND | 2.0 | 0.57 | 1.00 | |
| 2,4'-DDE | ND | 2.0 | 0.48 | 1.00 | |
| 2,4'-DDT | ND | 2.0 | 0.67 | 1.00 | |
| 4,4'-DDD | ND | 2.0 | 0.54 | 1.00 | |
| 4,4'-DDE | ND | 2.0 | 0.47 | 1.00 | |
| 4,4'-DDT | ND | 2.0 | 0.54 | 1.00 | |
| Alpha Chlordane | ND | 2.0 | 0.48 | 1.00 | |
| Cis-nonachlor | ND | 2.0 | 0.49 | 1.00 | |
| Dieldrin | ND | 2.0 | 0.54 | 1.00 | |
| Gamma Chlordane | ND | 2.0 | 0.48 | 1.00 | |
| Oxychlordane | ND | 2.0 | 0.61 | 1.00 | |
| Toxaphene | ND | 25 | 8.1 | 1.00 | |
| Trans-nonachlor | ND | 2.0 | 0.55 | 1.00 | |
| Surrogate | Rec. (%) | Control Limits | Qualifiers | | |
| Decachlorobiphenyl | 96 | 50-150 | | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 106 | 50-150 | | | |

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 07/07/15
Work Order: 15-07-0283
Preparation: EPA 3510C
Method: EPA 8081A
Units: ng/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OB-RW-17-G-S-20150707 | 15-07-0283-11-F | 07/07/15 10:20 | Sea Water | GC 44 | 07/08/15 | 07/10/15 14:34 | 150708L11 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------------------------|----------|----------------|------------|------|------------|
| 2,4'-DDD | ND | 2.0 | 0.57 | 1.00 | |
| 2,4'-DDE | ND | 2.0 | 0.48 | 1.00 | |
| 2,4'-DDT | ND | 2.0 | 0.67 | 1.00 | |
| 4,4'-DDD | ND | 2.0 | 0.54 | 1.00 | |
| 4,4'-DDE | ND | 2.0 | 0.47 | 1.00 | |
| 4,4'-DDT | ND | 2.0 | 0.54 | 1.00 | |
| Alpha Chlordane | ND | 2.0 | 0.48 | 1.00 | |
| Cis-nonachlor | ND | 2.0 | 0.49 | 1.00 | |
| Dieldrin | ND | 2.0 | 0.54 | 1.00 | |
| Gamma Chlordane | ND | 2.0 | 0.48 | 1.00 | |
| Oxychlordane | ND | 2.0 | 0.61 | 1.00 | |
| Toxaphene | ND | 25 | 8.1 | 1.00 | |
| Trans-nonachlor | ND | 2.0 | 0.55 | 1.00 | |
| Surrogate | Rec. (%) | Control Limits | Qualifiers | | |
| Decachlorobiphenyl | 91 | 50-150 | | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 96 | 50-150 | | | |

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 07/07/15
Work Order: 15-07-0283
Preparation: EPA 3510C
Method: EPA 8081A
Units: ng/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| SP-RW-20-G-S-20150707 | 15-07-0283-15-G | 07/07/15 11:20 | Sea Water | GC 44 | 07/08/15 | 07/10/15 14:49 | 150708L11 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------------------------|----------|----------------|------------|------|------------|
| 2,4'-DDD | ND | 2.0 | 0.58 | 1.00 | |
| 2,4'-DDE | ND | 2.0 | 0.48 | 1.00 | |
| 2,4'-DDT | ND | 2.0 | 0.68 | 1.00 | |
| 4,4'-DDD | ND | 2.0 | 0.54 | 1.00 | |
| 4,4'-DDE | ND | 2.0 | 0.47 | 1.00 | |
| 4,4'-DDT | ND | 2.0 | 0.55 | 1.00 | |
| Alpha Chlordane | ND | 2.0 | 0.49 | 1.00 | |
| Cis-nonachlor | ND | 2.0 | 0.50 | 1.00 | |
| Dieldrin | ND | 2.0 | 0.54 | 1.00 | |
| Gamma Chlordane | ND | 2.0 | 0.48 | 1.00 | |
| Oxychlordane | ND | 2.0 | 0.62 | 1.00 | |
| Toxaphene | ND | 25 | 8.2 | 1.00 | |
| Trans-nonachlor | ND | 2.0 | 0.55 | 1.00 | |
| Surrogate | Rec. (%) | Control Limits | Qualifiers | | |
| Decachlorobiphenyl | 92 | 50-150 | | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 95 | 50-150 | | | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 07/07/15
 Work Order: 15-07-0283
 Preparation: EPA 3510C
 Method: EPA 8081A
 Units: ng/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| SP-RW-19-G-S-20150707 | 15-07-0283-18-G | 07/07/15 11:50 | Sea Water | GC 44 | 07/08/15 | 07/10/15 15:03 | 150708L11 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------------------------|----------|----------------|------------|------|------------|
| 2,4'-DDD | ND | 2.0 | 0.57 | 1.00 | |
| 2,4'-DDE | ND | 2.0 | 0.48 | 1.00 | |
| 2,4'-DDT | ND | 2.0 | 0.67 | 1.00 | |
| 4,4'-DDD | ND | 2.0 | 0.54 | 1.00 | |
| 4,4'-DDE | ND | 2.0 | 0.47 | 1.00 | |
| 4,4'-DDT | ND | 2.0 | 0.54 | 1.00 | |
| Alpha Chlordane | ND | 2.0 | 0.48 | 1.00 | |
| Cis-nonachlor | ND | 2.0 | 0.49 | 1.00 | |
| Dieldrin | ND | 2.0 | 0.54 | 1.00 | |
| Gamma Chlordane | ND | 2.0 | 0.48 | 1.00 | |
| Oxychlordane | ND | 2.0 | 0.61 | 1.00 | |
| Toxaphene | ND | 25 | 8.1 | 1.00 | |
| Trans-nonachlor | ND | 2.0 | 0.55 | 1.00 | |
| Surrogate | Rec. (%) | Control Limits | Qualifiers | | |
| Decachlorobiphenyl | 100 | 50-150 | | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 104 | 50-150 | | | |



 Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 07/07/15
Work Order: 15-07-0283
Preparation: EPA 3510C
Method: EPA 8081A
Units: ng/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| EB-20150707 | 15-07-0283-21-D | 07/07/15 12:30 | Sea Water | GC 44 | 07/08/15 | 07/10/15 15:17 | 150708L11 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------------------------|----------|----------------|------------|------|------------|
| 2,4'-DDD | ND | 2.0 | 0.58 | 1.00 | |
| 2,4'-DDE | ND | 2.0 | 0.49 | 1.00 | |
| 2,4'-DDT | ND | 2.0 | 0.69 | 1.00 | |
| 4,4'-DDD | ND | 2.0 | 0.55 | 1.00 | |
| 4,4'-DDE | ND | 2.0 | 0.48 | 1.00 | |
| 4,4'-DDT | ND | 2.0 | 0.55 | 1.00 | |
| Alpha Chlordane | ND | 2.0 | 0.49 | 1.00 | |
| Cis-nonachlor | ND | 2.0 | 0.50 | 1.00 | |
| Dieldrin | ND | 2.0 | 0.55 | 1.00 | |
| Gamma Chlordane | ND | 2.0 | 0.49 | 1.00 | |
| Oxychlordane | ND | 2.0 | 0.63 | 1.00 | |
| Toxaphene | ND | 25 | 8.2 | 1.00 | |
| Trans-nonachlor | ND | 2.0 | 0.56 | 1.00 | |
| Surrogate | Rec. (%) | Control Limits | Qualifiers | | |
| Decachlorobiphenyl | 81 | 50-150 | | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 88 | 50-150 | | | |

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 07/07/15
 Work Order: 15-07-0283
 Preparation: EPA 3510C
 Method: EPA 8081A
 Units: ng/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|---------|------------|---------------|--------------------|-------------|
| Method Blank | 099-16-036-21 | N/A | Aqueous | GC 44 | 07/08/15 | 07/10/15 11:43 | 150708L11 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------------------------|----------|----------------|------------|------|------------|
| 2,4'-DDD | ND | 2.0 | 0.58 | 1.00 | |
| 2,4'-DDE | ND | 2.0 | 0.49 | 1.00 | |
| 2,4'-DDT | ND | 2.0 | 0.69 | 1.00 | |
| 4,4'-DDD | ND | 2.0 | 0.55 | 1.00 | |
| 4,4'-DDE | ND | 2.0 | 0.48 | 1.00 | |
| 4,4'-DDT | ND | 2.0 | 0.55 | 1.00 | |
| Alpha Chlordane | ND | 2.0 | 0.49 | 1.00 | |
| Cis-nonachlor | ND | 2.0 | 0.50 | 1.00 | |
| Dieldrin | ND | 2.0 | 0.55 | 1.00 | |
| Gamma Chlordane | ND | 2.0 | 0.49 | 1.00 | |
| Oxychlordane | ND | 2.0 | 0.63 | 1.00 | |
| Toxaphene | ND | 25 | 8.2 | 1.00 | |
| Trans-nonachlor | ND | 2.0 | 0.56 | 1.00 | |
| Surrogate | Rec. (%) | Control Limits | Qualifiers | | |
| Decachlorobiphenyl | 99 | 50-150 | | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 103 | 50-150 | | | |



 Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

| | | |
|------------------------------|----------------|-----------------------------|
| ANCHOR QEA, LLC | Date Received: | 07/07/15 |
| 27201 Puerta Real, Suite 350 | Work Order: | 15-07-0283 |
| Mission Viejo, CA 92691-8306 | Preparation: | EPA 3510C |
| | Method: | EPA 8270C SIM PCB Congeners |
| | Units: | ug/L |

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| LE-RW-22-G-S-20150707 | 15-07-0283-1-G | 07/07/15 08:20 | Sea Water | GC/MS HHH | 07/08/15 | 07/09/15 18:27 | 150708L12 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------|--------|--------|---------|------|------------|
| PCB018 | ND | 0.0020 | 0.00041 | 1.00 | |
| PCB028 | ND | 0.0020 | 0.00065 | 1.00 | |
| PCB037 | ND | 0.0020 | 0.00047 | 1.00 | |
| PCB044 | ND | 0.0020 | 0.00076 | 1.00 | |
| PCB049 | ND | 0.0020 | 0.00077 | 1.00 | |
| PCB052 | ND | 0.0020 | 0.00050 | 1.00 | |
| PCB066 | ND | 0.0020 | 0.00056 | 1.00 | |
| PCB070 | ND | 0.0020 | 0.00037 | 1.00 | |
| PCB074 | ND | 0.0020 | 0.00042 | 1.00 | |
| PCB077 | ND | 0.0020 | 0.00064 | 1.00 | |
| PCB081 | ND | 0.0020 | 0.00047 | 1.00 | |
| PCB087 | ND | 0.0020 | 0.00049 | 1.00 | |
| PCB099 | ND | 0.0020 | 0.00059 | 1.00 | |
| PCB101 | ND | 0.0020 | 0.00057 | 1.00 | |
| PCB105 | ND | 0.0020 | 0.00037 | 1.00 | |
| PCB110 | ND | 0.0020 | 0.00049 | 1.00 | |
| PCB114 | ND | 0.0020 | 0.00043 | 1.00 | |
| PCB118 | ND | 0.0020 | 0.00048 | 1.00 | |
| PCB119 | ND | 0.0020 | 0.00042 | 1.00 | |
| PCB123 | ND | 0.0020 | 0.00075 | 1.00 | |
| PCB126 | ND | 0.0020 | 0.00053 | 1.00 | |
| PCB128 | ND | 0.0020 | 0.00069 | 1.00 | |
| PCB132/153 | ND | 0.0039 | 0.0012 | 1.00 | |
| PCB138/158 | ND | 0.0039 | 0.0011 | 1.00 | |
| PCB149 | ND | 0.0020 | 0.00050 | 1.00 | |
| PCB151 | ND | 0.0020 | 0.00060 | 1.00 | |
| PCB156 | ND | 0.0020 | 0.00050 | 1.00 | |
| PCB157 | ND | 0.0020 | 0.00074 | 1.00 | |
| PCB167 | ND | 0.0020 | 0.00085 | 1.00 | |
| PCB168 | ND | 0.0020 | 0.00032 | 1.00 | |
| PCB169 | ND | 0.0020 | 0.00055 | 1.00 | |
| PCB170 | ND | 0.0020 | 0.00055 | 1.00 | |
| PCB177 | ND | 0.0020 | 0.00056 | 1.00 | |
| PCB180 | ND | 0.0020 | 0.00070 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 07/07/15
 Work Order: 15-07-0283
 Preparation: EPA 3510C
 Method: EPA 8270C SIM PCB Congeners
 Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|-----------------|-----------------------|-------------------|-----------|-------------------|
| PCB183 | ND | 0.0020 | 0.00052 | 1.00 | |
| PCB187 | ND | 0.0020 | 0.00055 | 1.00 | |
| PCB189 | ND | 0.0020 | 0.00039 | 1.00 | |
| PCB194 | ND | 0.0020 | 0.00041 | 1.00 | |
| PCB195 | ND | 0.0020 | 0.00035 | 1.00 | |
| PCB201 | ND | 0.0020 | 0.00071 | 1.00 | |
| PCB206 | ND | 0.0020 | 0.00025 | 1.00 | |
| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> | | |
| 2-Fluorobiphenyl | 87 | 50-150 | | | |
| p-Terphenyl-d14 | 85 | 50-150 | | | |

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 07/07/15
Work Order: 15-07-0283
Preparation: EPA 3510C
Method: EPA 8270C SIM PCB Congeners
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| LE-RW-21-G-S-20150707 | 15-07-0283-5-E | 07/07/15 08:55 | Sea Water | GC/MS HHH | 07/08/15 | 07/09/15 18:52 | 150708L12 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------|---------|--------|---------|------|------------|
| PCB018 | ND | 0.0020 | 0.00041 | 1.00 | |
| PCB028 | ND | 0.0020 | 0.00065 | 1.00 | |
| PCB037 | ND | 0.0020 | 0.00047 | 1.00 | |
| PCB044 | ND | 0.0020 | 0.00076 | 1.00 | |
| PCB049 | ND | 0.0020 | 0.00077 | 1.00 | |
| PCB052 | ND | 0.0020 | 0.00050 | 1.00 | |
| PCB066 | ND | 0.0020 | 0.00056 | 1.00 | |
| PCB070 | ND | 0.0020 | 0.00037 | 1.00 | |
| PCB074 | ND | 0.0020 | 0.00042 | 1.00 | |
| PCB077 | ND | 0.0020 | 0.00064 | 1.00 | |
| PCB081 | ND | 0.0020 | 0.00047 | 1.00 | |
| PCB087 | ND | 0.0020 | 0.00049 | 1.00 | |
| PCB099 | ND | 0.0020 | 0.00059 | 1.00 | |
| PCB101 | ND | 0.0020 | 0.00057 | 1.00 | |
| PCB105 | ND | 0.0020 | 0.00037 | 1.00 | |
| PCB110 | ND | 0.0020 | 0.00049 | 1.00 | |
| PCB114 | ND | 0.0020 | 0.00043 | 1.00 | |
| PCB118 | ND | 0.0020 | 0.00048 | 1.00 | |
| PCB119 | ND | 0.0020 | 0.00042 | 1.00 | |
| PCB123 | ND | 0.0020 | 0.00075 | 1.00 | |
| PCB126 | ND | 0.0020 | 0.00053 | 1.00 | |
| PCB128 | ND | 0.0020 | 0.00069 | 1.00 | |
| PCB132/153 | ND | 0.0039 | 0.0012 | 1.00 | |
| PCB138/158 | ND | 0.0039 | 0.0011 | 1.00 | |
| PCB149 | ND | 0.0020 | 0.00050 | 1.00 | |
| PCB151 | ND | 0.0020 | 0.00060 | 1.00 | |
| PCB156 | ND | 0.0020 | 0.00050 | 1.00 | |
| PCB157 | ND | 0.0020 | 0.00074 | 1.00 | |
| PCB167 | ND | 0.0020 | 0.00085 | 1.00 | |
| PCB168 | ND | 0.0020 | 0.00032 | 1.00 | |
| PCB169 | ND | 0.0020 | 0.00055 | 1.00 | |
| PCB170 | ND | 0.0020 | 0.00055 | 1.00 | |
| PCB177 | ND | 0.0020 | 0.00056 | 1.00 | |
| PCB180 | 0.00084 | 0.0020 | 0.00070 | 1.00 | J |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 07/07/15
Work Order: 15-07-0283
Preparation: EPA 3510C
Method: EPA 8270C SIM PCB Congeners
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|-----------------|-----------------------|-------------------|-----------|-------------------|
| PCB183 | ND | 0.0020 | 0.00052 | 1.00 | |
| PCB187 | ND | 0.0020 | 0.00055 | 1.00 | |
| PCB189 | ND | 0.0020 | 0.00039 | 1.00 | |
| PCB194 | ND | 0.0020 | 0.00041 | 1.00 | |
| PCB195 | ND | 0.0020 | 0.00035 | 1.00 | |
| PCB201 | ND | 0.0020 | 0.00071 | 1.00 | |
| PCB206 | ND | 0.0020 | 0.00025 | 1.00 | |
| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> | | |
| 2-Fluorobiphenyl | 85 | 50-150 | | | |
| p-Terphenyl-d14 | 86 | 50-150 | | | |

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

| | | |
|------------------------------|----------------|-----------------------------|
| ANCHOR QEA, LLC | Date Received: | 07/07/15 |
| 27201 Puerta Real, Suite 350 | Work Order: | 15-07-0283 |
| Mission Viejo, CA 92691-8306 | Preparation: | EPA 3510C |
| | Method: | EPA 8270C SIM PCB Congeners |
| | Units: | ug/L |

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| SP-RW-18-G-S-20150707 | 15-07-0283-8-E | 07/07/15 09:20 | Sea Water | GC/MS HHH | 07/08/15 | 07/09/15 19:17 | 150708L12 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------|--------|--------|---------|------|------------|
| PCB018 | ND | 0.0020 | 0.00041 | 1.00 | |
| PCB028 | ND | 0.0020 | 0.00065 | 1.00 | |
| PCB037 | ND | 0.0020 | 0.00047 | 1.00 | |
| PCB044 | ND | 0.0020 | 0.00077 | 1.00 | |
| PCB049 | ND | 0.0020 | 0.00077 | 1.00 | |
| PCB052 | ND | 0.0020 | 0.00051 | 1.00 | |
| PCB066 | ND | 0.0020 | 0.00057 | 1.00 | |
| PCB070 | ND | 0.0020 | 0.00038 | 1.00 | |
| PCB074 | ND | 0.0020 | 0.00042 | 1.00 | |
| PCB077 | ND | 0.0020 | 0.00065 | 1.00 | |
| PCB081 | ND | 0.0020 | 0.00048 | 1.00 | |
| PCB087 | ND | 0.0020 | 0.00049 | 1.00 | |
| PCB099 | ND | 0.0020 | 0.00060 | 1.00 | |
| PCB101 | ND | 0.0020 | 0.00057 | 1.00 | |
| PCB105 | ND | 0.0020 | 0.00037 | 1.00 | |
| PCB110 | ND | 0.0020 | 0.00050 | 1.00 | |
| PCB114 | ND | 0.0020 | 0.00044 | 1.00 | |
| PCB118 | ND | 0.0020 | 0.00049 | 1.00 | |
| PCB119 | ND | 0.0020 | 0.00043 | 1.00 | |
| PCB123 | ND | 0.0020 | 0.00076 | 1.00 | |
| PCB126 | ND | 0.0020 | 0.00054 | 1.00 | |
| PCB128 | ND | 0.0020 | 0.00070 | 1.00 | |
| PCB132/153 | ND | 0.0040 | 0.0012 | 1.00 | |
| PCB138/158 | ND | 0.0040 | 0.0011 | 1.00 | |
| PCB149 | ND | 0.0020 | 0.00050 | 1.00 | |
| PCB151 | ND | 0.0020 | 0.00061 | 1.00 | |
| PCB156 | ND | 0.0020 | 0.00051 | 1.00 | |
| PCB157 | ND | 0.0020 | 0.00074 | 1.00 | |
| PCB167 | ND | 0.0020 | 0.00086 | 1.00 | |
| PCB168 | ND | 0.0020 | 0.00032 | 1.00 | |
| PCB169 | ND | 0.0020 | 0.00056 | 1.00 | |
| PCB170 | ND | 0.0020 | 0.00056 | 1.00 | |
| PCB177 | ND | 0.0020 | 0.00057 | 1.00 | |
| PCB180 | ND | 0.0020 | 0.00071 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 07/07/15
 Work Order: 15-07-0283
 Preparation: EPA 3510C
 Method: EPA 8270C SIM PCB Congeners
 Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|-----------------|-----------------------|-------------------|-----------|-------------------|
| PCB183 | ND | 0.0020 | 0.00053 | 1.00 | |
| PCB187 | ND | 0.0020 | 0.00055 | 1.00 | |
| PCB189 | ND | 0.0020 | 0.00040 | 1.00 | |
| PCB194 | ND | 0.0020 | 0.00042 | 1.00 | |
| PCB195 | ND | 0.0020 | 0.00035 | 1.00 | |
| PCB201 | ND | 0.0020 | 0.00072 | 1.00 | |
| PCB206 | ND | 0.0020 | 0.00025 | 1.00 | |
| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> | | |
| 2-Fluorobiphenyl | 97 | 50-150 | | | |
| p-Terphenyl-d14 | 88 | 50-150 | | | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 07/07/15
Work Order: 15-07-0283
Preparation: EPA 3510C
Method: EPA 8270C SIM PCB Congeners
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OB-RW-17-G-S-20150707 | 15-07-0283-11-G | 07/07/15 10:20 | Sea Water | GC/MS HHH | 07/08/15 | 07/09/15 19:41 | 150708L12 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------|---------|--------|---------|------|------------|
| PCB018 | ND | 0.0020 | 0.00041 | 1.00 | |
| PCB028 | ND | 0.0020 | 0.00065 | 1.00 | |
| PCB037 | ND | 0.0020 | 0.00047 | 1.00 | |
| PCB044 | ND | 0.0020 | 0.00076 | 1.00 | |
| PCB049 | ND | 0.0020 | 0.00077 | 1.00 | |
| PCB052 | ND | 0.0020 | 0.00050 | 1.00 | |
| PCB066 | ND | 0.0020 | 0.00056 | 1.00 | |
| PCB070 | ND | 0.0020 | 0.00037 | 1.00 | |
| PCB074 | ND | 0.0020 | 0.00042 | 1.00 | |
| PCB077 | ND | 0.0020 | 0.00064 | 1.00 | |
| PCB081 | ND | 0.0020 | 0.00047 | 1.00 | |
| PCB087 | ND | 0.0020 | 0.00049 | 1.00 | |
| PCB099 | ND | 0.0020 | 0.00059 | 1.00 | |
| PCB101 | ND | 0.0020 | 0.00057 | 1.00 | |
| PCB105 | ND | 0.0020 | 0.00037 | 1.00 | |
| PCB110 | ND | 0.0020 | 0.00049 | 1.00 | |
| PCB114 | ND | 0.0020 | 0.00043 | 1.00 | |
| PCB118 | ND | 0.0020 | 0.00048 | 1.00 | |
| PCB119 | ND | 0.0020 | 0.00042 | 1.00 | |
| PCB123 | ND | 0.0020 | 0.00075 | 1.00 | |
| PCB126 | ND | 0.0020 | 0.00053 | 1.00 | |
| PCB128 | ND | 0.0020 | 0.00069 | 1.00 | |
| PCB132/153 | ND | 0.0039 | 0.0012 | 1.00 | |
| PCB138/158 | ND | 0.0039 | 0.0011 | 1.00 | |
| PCB149 | ND | 0.0020 | 0.00050 | 1.00 | |
| PCB151 | ND | 0.0020 | 0.00060 | 1.00 | |
| PCB156 | ND | 0.0020 | 0.00050 | 1.00 | |
| PCB157 | ND | 0.0020 | 0.00074 | 1.00 | |
| PCB167 | ND | 0.0020 | 0.00085 | 1.00 | |
| PCB168 | ND | 0.0020 | 0.00032 | 1.00 | |
| PCB169 | ND | 0.0020 | 0.00055 | 1.00 | |
| PCB170 | ND | 0.0020 | 0.00055 | 1.00 | |
| PCB177 | ND | 0.0020 | 0.00056 | 1.00 | |
| PCB180 | 0.00088 | 0.0020 | 0.00070 | 1.00 | J |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 07/07/15
Work Order: 15-07-0283
Preparation: EPA 3510C
Method: EPA 8270C SIM PCB Congeners
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|-----------------|-----------------------|-------------------|-----------|-------------------|
| PCB183 | ND | 0.0020 | 0.00052 | 1.00 | |
| PCB187 | ND | 0.0020 | 0.00055 | 1.00 | |
| PCB189 | ND | 0.0020 | 0.00039 | 1.00 | |
| PCB194 | ND | 0.0020 | 0.00041 | 1.00 | |
| PCB195 | ND | 0.0020 | 0.00035 | 1.00 | |
| PCB201 | ND | 0.0020 | 0.00071 | 1.00 | |
| PCB206 | ND | 0.0020 | 0.00025 | 1.00 | |
| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> | | |
| 2-Fluorobiphenyl | 80 | 50-150 | | | |
| p-Terphenyl-d14 | 83 | 50-150 | | | |

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

| | | |
|------------------------------|----------------|-----------------------------|
| ANCHOR QEA, LLC | Date Received: | 07/07/15 |
| 27201 Puerta Real, Suite 350 | Work Order: | 15-07-0283 |
| Mission Viejo, CA 92691-8306 | Preparation: | EPA 3510C |
| | Method: | EPA 8270C SIM PCB Congeners |
| | Units: | ug/L |

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| SP-RW-20-G-S-20150707 | 15-07-0283-15-E | 07/07/15 11:20 | Sea Water | GC/MS HHH | 07/08/15 | 07/09/15 20:06 | 150708L12 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------|--------|--------|---------|------|------------|
| PCB018 | ND | 0.0025 | 0.00052 | 1.00 | |
| PCB028 | ND | 0.0025 | 0.00083 | 1.00 | |
| PCB037 | ND | 0.0025 | 0.00060 | 1.00 | |
| PCB044 | ND | 0.0025 | 0.00098 | 1.00 | |
| PCB049 | ND | 0.0025 | 0.00098 | 1.00 | |
| PCB052 | ND | 0.0025 | 0.00064 | 1.00 | |
| PCB066 | ND | 0.0025 | 0.00072 | 1.00 | |
| PCB070 | ND | 0.0025 | 0.00047 | 1.00 | |
| PCB074 | ND | 0.0025 | 0.00053 | 1.00 | |
| PCB077 | ND | 0.0025 | 0.00082 | 1.00 | |
| PCB081 | ND | 0.0025 | 0.00060 | 1.00 | |
| PCB087 | ND | 0.0025 | 0.00062 | 1.00 | |
| PCB099 | ND | 0.0025 | 0.00076 | 1.00 | |
| PCB101 | ND | 0.0025 | 0.00072 | 1.00 | |
| PCB105 | ND | 0.0025 | 0.00047 | 1.00 | |
| PCB110 | ND | 0.0025 | 0.00063 | 1.00 | |
| PCB114 | ND | 0.0025 | 0.00055 | 1.00 | |
| PCB118 | ND | 0.0025 | 0.00061 | 1.00 | |
| PCB119 | ND | 0.0025 | 0.00054 | 1.00 | |
| PCB123 | ND | 0.0025 | 0.00096 | 1.00 | |
| PCB126 | ND | 0.0025 | 0.00068 | 1.00 | |
| PCB128 | ND | 0.0025 | 0.00088 | 1.00 | |
| PCB132/153 | ND | 0.0050 | 0.0015 | 1.00 | |
| PCB138/158 | ND | 0.0050 | 0.0014 | 1.00 | |
| PCB149 | ND | 0.0025 | 0.00063 | 1.00 | |
| PCB151 | ND | 0.0025 | 0.00077 | 1.00 | |
| PCB156 | ND | 0.0025 | 0.00064 | 1.00 | |
| PCB157 | ND | 0.0025 | 0.00094 | 1.00 | |
| PCB167 | ND | 0.0025 | 0.0011 | 1.00 | |
| PCB168 | ND | 0.0025 | 0.00041 | 1.00 | |
| PCB169 | ND | 0.0025 | 0.00070 | 1.00 | |
| PCB170 | ND | 0.0025 | 0.00070 | 1.00 | |
| PCB177 | ND | 0.0025 | 0.00071 | 1.00 | |
| PCB180 | ND | 0.0025 | 0.00090 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 07/07/15
 Work Order: 15-07-0283
 Preparation: EPA 3510C
 Method: EPA 8270C SIM PCB Congeners
 Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|-----------------|-----------------------|-------------------|-----------|-------------------|
| PCB183 | ND | 0.0025 | 0.00067 | 1.00 | |
| PCB187 | ND | 0.0025 | 0.00070 | 1.00 | |
| PCB189 | ND | 0.0025 | 0.00050 | 1.00 | |
| PCB194 | ND | 0.0025 | 0.00052 | 1.00 | |
| PCB195 | ND | 0.0025 | 0.00044 | 1.00 | |
| PCB201 | ND | 0.0025 | 0.00090 | 1.00 | |
| PCB206 | ND | 0.0025 | 0.00032 | 1.00 | |
| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> | | |
| 2-Fluorobiphenyl | 84 | 50-150 | | | |
| p-Terphenyl-d14 | 81 | 50-150 | | | |



Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 07/07/15
Work Order: 15-07-0283
Preparation: EPA 3510C
Method: EPA 8270C SIM PCB Congeners
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| SP-RW-19-G-S-20150707 | 15-07-0283-18-F | 07/07/15 11:50 | Sea Water | GC/MS HHH | 07/08/15 | 07/09/15 20:30 | 150708L12 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------|--------|--------|---------|------|------------|
| PCB018 | ND | 0.0020 | 0.00042 | 1.00 | |
| PCB028 | ND | 0.0020 | 0.00066 | 1.00 | |
| PCB037 | ND | 0.0020 | 0.00048 | 1.00 | |
| PCB044 | ND | 0.0020 | 0.00078 | 1.00 | |
| PCB049 | ND | 0.0020 | 0.00078 | 1.00 | |
| PCB052 | ND | 0.0020 | 0.00051 | 1.00 | |
| PCB066 | ND | 0.0020 | 0.00057 | 1.00 | |
| PCB070 | ND | 0.0020 | 0.00038 | 1.00 | |
| PCB074 | ND | 0.0020 | 0.00043 | 1.00 | |
| PCB077 | ND | 0.0020 | 0.00065 | 1.00 | |
| PCB081 | ND | 0.0020 | 0.00048 | 1.00 | |
| PCB087 | ND | 0.0020 | 0.00050 | 1.00 | |
| PCB099 | ND | 0.0020 | 0.00060 | 1.00 | |
| PCB101 | ND | 0.0020 | 0.00058 | 1.00 | |
| PCB105 | ND | 0.0020 | 0.00038 | 1.00 | |
| PCB110 | ND | 0.0020 | 0.00050 | 1.00 | |
| PCB114 | ND | 0.0020 | 0.00044 | 1.00 | |
| PCB118 | ND | 0.0020 | 0.00049 | 1.00 | |
| PCB119 | ND | 0.0020 | 0.00043 | 1.00 | |
| PCB123 | ND | 0.0020 | 0.00077 | 1.00 | |
| PCB126 | ND | 0.0020 | 0.00055 | 1.00 | |
| PCB128 | ND | 0.0020 | 0.00070 | 1.00 | |
| PCB132/153 | ND | 0.0040 | 0.0012 | 1.00 | |
| PCB138/158 | ND | 0.0040 | 0.0011 | 1.00 | |
| PCB149 | ND | 0.0020 | 0.00050 | 1.00 | |
| PCB151 | ND | 0.0020 | 0.00061 | 1.00 | |
| PCB156 | ND | 0.0020 | 0.00051 | 1.00 | |
| PCB157 | ND | 0.0020 | 0.00075 | 1.00 | |
| PCB167 | ND | 0.0020 | 0.00087 | 1.00 | |
| PCB168 | ND | 0.0020 | 0.00033 | 1.00 | |
| PCB169 | ND | 0.0020 | 0.00056 | 1.00 | |
| PCB170 | ND | 0.0020 | 0.00056 | 1.00 | |
| PCB177 | ND | 0.0020 | 0.00057 | 1.00 | |
| PCB180 | ND | 0.0020 | 0.00072 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 07/07/15
 Work Order: 15-07-0283
 Preparation: EPA 3510C
 Method: EPA 8270C SIM PCB Congeners
 Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|-----------------|-----------------------|-------------------|-----------|-------------------|
| PCB183 | ND | 0.0020 | 0.00053 | 1.00 | |
| PCB187 | ND | 0.0020 | 0.00056 | 1.00 | |
| PCB189 | ND | 0.0020 | 0.00040 | 1.00 | |
| PCB194 | ND | 0.0020 | 0.00042 | 1.00 | |
| PCB195 | ND | 0.0020 | 0.00035 | 1.00 | |
| PCB201 | ND | 0.0020 | 0.00072 | 1.00 | |
| PCB206 | ND | 0.0020 | 0.00026 | 1.00 | |
| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> | | |
| 2-Fluorobiphenyl | 90 | 50-150 | | | |
| p-Terphenyl-d14 | 88 | 50-150 | | | |

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 07/07/15
Work Order: 15-07-0283
Preparation: EPA 3510C
Method: EPA 8270C SIM PCB Congeners
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

Page 13 of 16

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| EB-20150707 | 15-07-0283-21-B | 07/07/15 12:30 | Sea Water | GC/MS HHH | 07/08/15 | 07/09/15 20:54 | 150708L12 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------|--------|--------|---------|------|------------|
| PCB018 | ND | 0.0024 | 0.00051 | 1.00 | |
| PCB028 | ND | 0.0024 | 0.00081 | 1.00 | |
| PCB037 | ND | 0.0024 | 0.00058 | 1.00 | |
| PCB044 | ND | 0.0024 | 0.00095 | 1.00 | |
| PCB049 | ND | 0.0024 | 0.00095 | 1.00 | |
| PCB052 | ND | 0.0024 | 0.00062 | 1.00 | |
| PCB066 | ND | 0.0024 | 0.00070 | 1.00 | |
| PCB070 | ND | 0.0024 | 0.00046 | 1.00 | |
| PCB074 | ND | 0.0024 | 0.00052 | 1.00 | |
| PCB077 | ND | 0.0024 | 0.00080 | 1.00 | |
| PCB081 | ND | 0.0024 | 0.00059 | 1.00 | |
| PCB087 | ND | 0.0024 | 0.00061 | 1.00 | |
| PCB099 | ND | 0.0024 | 0.00074 | 1.00 | |
| PCB101 | ND | 0.0024 | 0.00070 | 1.00 | |
| PCB105 | ND | 0.0024 | 0.00046 | 1.00 | |
| PCB110 | ND | 0.0024 | 0.00061 | 1.00 | |
| PCB114 | ND | 0.0024 | 0.00054 | 1.00 | |
| PCB118 | ND | 0.0024 | 0.00060 | 1.00 | |
| PCB119 | ND | 0.0024 | 0.00052 | 1.00 | |
| PCB123 | ND | 0.0024 | 0.00093 | 1.00 | |
| PCB126 | ND | 0.0024 | 0.00066 | 1.00 | |
| PCB128 | ND | 0.0024 | 0.00086 | 1.00 | |
| PCB132/153 | ND | 0.0049 | 0.0014 | 1.00 | |
| PCB138/158 | ND | 0.0049 | 0.0014 | 1.00 | |
| PCB149 | ND | 0.0024 | 0.00062 | 1.00 | |
| PCB151 | ND | 0.0024 | 0.00075 | 1.00 | |
| PCB156 | ND | 0.0024 | 0.00063 | 1.00 | |
| PCB157 | ND | 0.0024 | 0.00092 | 1.00 | |
| PCB167 | ND | 0.0024 | 0.0011 | 1.00 | |
| PCB168 | ND | 0.0024 | 0.00040 | 1.00 | |
| PCB169 | ND | 0.0024 | 0.00069 | 1.00 | |
| PCB170 | ND | 0.0024 | 0.00069 | 1.00 | |
| PCB177 | ND | 0.0024 | 0.00070 | 1.00 | |
| PCB180 | ND | 0.0024 | 0.00088 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 07/07/15
 Work Order: 15-07-0283
 Preparation: EPA 3510C
 Method: EPA 8270C SIM PCB Congeners
 Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|-----------------|-----------------------|-------------------|-----------|-------------------|
| PCB183 | ND | 0.0024 | 0.00065 | 1.00 | |
| PCB187 | ND | 0.0024 | 0.00068 | 1.00 | |
| PCB189 | ND | 0.0024 | 0.00049 | 1.00 | |
| PCB194 | ND | 0.0024 | 0.00051 | 1.00 | |
| PCB195 | ND | 0.0024 | 0.00043 | 1.00 | |
| PCB201 | ND | 0.0024 | 0.00088 | 1.00 | |
| PCB206 | ND | 0.0024 | 0.00031 | 1.00 | |
| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> | | |
| 2-Fluorobiphenyl | 83 | 50-150 | | | |
| p-Terphenyl-d14 | 82 | 50-150 | | | |

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 07/07/15
Work Order: 15-07-0283
Preparation: EPA 3510C
Method: EPA 8270C SIM PCB Congeners
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|---------|------------|---------------|--------------------|-------------|
| Method Blank | 099-16-414-44 | N/A | Aqueous | GC/MS HHH | 07/08/15 | 07/09/15 18:02 | 150708L12 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------|--------|--------|---------|------|------------|
| PCB018 | ND | 0.0020 | 0.00042 | 1.00 | |
| PCB028 | ND | 0.0020 | 0.00066 | 1.00 | |
| PCB037 | ND | 0.0020 | 0.00048 | 1.00 | |
| PCB044 | ND | 0.0020 | 0.00078 | 1.00 | |
| PCB049 | ND | 0.0020 | 0.00078 | 1.00 | |
| PCB052 | ND | 0.0020 | 0.00051 | 1.00 | |
| PCB066 | ND | 0.0020 | 0.00057 | 1.00 | |
| PCB070 | ND | 0.0020 | 0.00038 | 1.00 | |
| PCB074 | ND | 0.0020 | 0.00043 | 1.00 | |
| PCB077 | ND | 0.0020 | 0.00065 | 1.00 | |
| PCB081 | ND | 0.0020 | 0.00048 | 1.00 | |
| PCB087 | ND | 0.0020 | 0.00050 | 1.00 | |
| PCB099 | ND | 0.0020 | 0.00060 | 1.00 | |
| PCB101 | ND | 0.0020 | 0.00058 | 1.00 | |
| PCB105 | ND | 0.0020 | 0.00038 | 1.00 | |
| PCB110 | ND | 0.0020 | 0.00050 | 1.00 | |
| PCB114 | ND | 0.0020 | 0.00044 | 1.00 | |
| PCB118 | ND | 0.0020 | 0.00049 | 1.00 | |
| PCB119 | ND | 0.0020 | 0.00043 | 1.00 | |
| PCB123 | ND | 0.0020 | 0.00077 | 1.00 | |
| PCB126 | ND | 0.0020 | 0.00055 | 1.00 | |
| PCB128 | ND | 0.0020 | 0.00070 | 1.00 | |
| PCB132/153 | ND | 0.0040 | 0.0012 | 1.00 | |
| PCB138/158 | ND | 0.0040 | 0.0011 | 1.00 | |
| PCB149 | ND | 0.0020 | 0.00050 | 1.00 | |
| PCB151 | ND | 0.0020 | 0.00061 | 1.00 | |
| PCB156 | ND | 0.0020 | 0.00051 | 1.00 | |
| PCB157 | ND | 0.0020 | 0.00075 | 1.00 | |
| PCB167 | ND | 0.0020 | 0.00087 | 1.00 | |
| PCB168 | ND | 0.0020 | 0.00033 | 1.00 | |
| PCB169 | ND | 0.0020 | 0.00056 | 1.00 | |
| PCB170 | ND | 0.0020 | 0.00056 | 1.00 | |
| PCB177 | ND | 0.0020 | 0.00057 | 1.00 | |
| PCB180 | ND | 0.0020 | 0.00072 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 07/07/15
 Work Order: 15-07-0283
 Preparation: EPA 3510C
 Method: EPA 8270C SIM PCB Congeners
 Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|-----------------|-----------------------|-------------------|-----------|-------------------|
| PCB183 | ND | 0.0020 | 0.00053 | 1.00 | |
| PCB187 | ND | 0.0020 | 0.00056 | 1.00 | |
| PCB189 | ND | 0.0020 | 0.00040 | 1.00 | |
| PCB194 | ND | 0.0020 | 0.00042 | 1.00 | |
| PCB195 | ND | 0.0020 | 0.00035 | 1.00 | |
| PCB201 | ND | 0.0020 | 0.00072 | 1.00 | |
| PCB206 | ND | 0.0020 | 0.00026 | 1.00 | |
| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> | | |
| 2-Fluorobiphenyl | 84 | 50-150 | | | |
| p-Terphenyl-d14 | 85 | 50-150 | | | |

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Quality Control - Spike/Spike Duplicate

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 07/07/15
Work Order: 15-07-0283
Preparation: EPA 1631E Total
Method: EPA 1631E

Project: GWMA - TMDL Compliance Monitoring

Page 1 of 3

| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | MS/MSD Batch Number |
|---------------------------|------------------------|-----------|------------|---------------|----------------|---------------------|
| LE-RW-21-G-S-20150707 | Sample | Sea Water | Hg/AF 1 | 07/16/15 | 07/16/15 00:00 | 150716S01 |
| LE-RW-21-G-S-20150707 | Matrix Spike | Sea Water | Hg/AF 1 | 07/16/15 | 07/16/15 00:00 | 150716S01 |
| LE-RW-21-G-S-20150707 | Matrix Spike Duplicate | Sea Water | Hg/AF 1 | 07/16/15 | 07/16/15 00:00 | 150716S01 |

| Parameter | Sample Conc. | Spike Added | MS Conc. | MS %Rec. | MSD Conc. | MSD %Rec. | %Rec. CL | RPD | RPD CL | Qualifiers |
|-----------|--------------|-------------|----------|----------|-----------|-----------|----------|-----|--------|------------|
| Mercury | 0.001118 | 0.02000 | 0.02181 | 103 | 0.02282 | 109 | 71-125 | 5 | 0-24 | |

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RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - Spike/Spike Duplicate

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 07/07/15
Work Order: 15-07-0283
Preparation: EPA 1631E Total
Method: EPA 1631E

Project: GWMA - TMDL Compliance Monitoring

Page 2 of 3

| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | MS/MSD Batch Number |
|---------------------------|------------------------|-----------|------------|---------------|----------------|---------------------|
| SP-RW-19-G-S-20150707 | Sample | Sea Water | Hg/AF 1 | 07/16/15 | 07/16/15 00:00 | 150716S01A |
| SP-RW-19-G-S-20150707 | Matrix Spike | Sea Water | Hg/AF 1 | 07/16/15 | 07/16/15 00:00 | 150716S01A |
| SP-RW-19-G-S-20150707 | Matrix Spike Duplicate | Sea Water | Hg/AF 1 | 07/16/15 | 07/16/15 00:00 | 150716S01A |

| Parameter | Sample Conc. | Spike Added | MS Conc. | MS %Rec. | MSD Conc. | MSD %Rec. | %Rec. CL | RPD | RPD CL | Qualifiers |
|-----------|--------------|-------------|----------|----------|-----------|-----------|----------|-----|--------|------------|
| Mercury | 0.0008741 | 0.02000 | 0.02276 | 109 | 0.02344 | 113 | 71-125 | 3 | 0-24 | |

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - Spike/Spike Duplicate

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 07/07/15
Work Order: 15-07-0283
Preparation: EPA 3005A Total
Method: EPA 1640

Project: GWMA - TMDL Compliance Monitoring

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| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | MS/MSD Batch Number | | | | |
|---------------------------|------------------------|-------------|------------|---------------|----------------|---------------------|----------|-----|--------|------------|
| 15-07-0444-1 | Sample | Sea Water | ICP/MS 05 | 07/10/15 | 07/10/15 19:40 | 150710S02 | | | | |
| 15-07-0444-1 | Matrix Spike | Sea Water | ICP/MS 05 | 07/10/15 | 07/10/15 18:36 | 150710S02 | | | | |
| 15-07-0444-1 | Matrix Spike Duplicate | Sea Water | ICP/MS 05 | 07/10/15 | 07/10/15 18:44 | 150710S02 | | | | |
| Parameter | Sample Conc. | Spike Added | MS Conc. | MS %Rec. | MSD Conc. | MSD %Rec. | %Rec. CL | RPD | RPD CL | Qualifiers |
| Cadmium | ND | 0.5000 | 0.5188 | 104 | 0.5314 | 106 | 50-150 | 2 | 0-20 | |
| Chromium | 0.7244 | 5.000 | 7.075 | 127 | 7.055 | 127 | 50-150 | 0 | 0-20 | |
| Copper | 2.430 | 0.5000 | 3.144 | 4X | 3.200 | 4X | 50-150 | 4X | 0-20 | Q |
| Lead | 0.6088 | 0.5000 | 1.022 | 83 | 1.021 | 82 | 50-150 | 0 | 0-20 | |
| Zinc | 5.700 | 5.000 | 11.54 | 117 | 11.69 | 120 | 50-150 | 1 | 0-20 | |


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RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - Sample Duplicate

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 07/07/15
Work Order: 15-07-0283
Preparation: N/A
Method: SM 2540 D

Project: GWMA - TMDL Compliance Monitoring

Page 1 of 2

| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | Duplicate Batch Number |
|---------------------------|------------------|---------|------------|----------------|----------------|------------------------|
| 15-07-0187-2 | Sample | Aqueous | N/A | 07/08/15 00:00 | 07/08/15 19:30 | F0708TSSD3 |
| 15-07-0187-2 | Sample Duplicate | Aqueous | N/A | 07/08/15 00:00 | 07/08/15 19:30 | F0708TSSD3 |

| Parameter | Sample Conc. | DUP Conc. | RPD | RPD CL | Qualifiers |
|-------------------------|--------------|-----------|-----|--------|------------|
| Solids, Total Suspended | 710.0 | 686.0 | 3 | 0-20 | |

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RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - Sample Duplicate

| | | |
|--|----------------|-------------|
| ANCHOR QEA, LLC | Date Received: | 07/07/15 |
| 27201 Puerta Real, Suite 350 | Work Order: | 15-07-0283 |
| Mission Viejo, CA 92691-8306 | Preparation: | N/A |
| | Method: | SM 2540 D |
| Project: GWMA - TMDL Compliance Monitoring | | Page 2 of 2 |

| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | Duplicate Batch Number |
|---------------------------|------------------|---------------------|------------------|----------------|----------------|------------------------|
| 15-07-0220-2 | Sample | Aqueous | N/A | 07/09/15 00:00 | 07/09/15 20:00 | F0709TSSD1 |
| 15-07-0220-2 | Sample Duplicate | Aqueous | N/A | 07/09/15 00:00 | 07/09/15 20:00 | F0709TSSD1 |
| <u>Parameter</u> | | <u>Sample Conc.</u> | <u>DUP Conc.</u> | <u>RPD</u> | <u>RPD CL</u> | <u>Qualifiers</u> |
| Solids, Total Suspended | | 426.0 | 406.0 | 5 | 0-20 | |

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RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - LCS/LCSD

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 07/07/15
Work Order: 15-07-0283
Preparation: N/A
Method: SM 2540 D

Project: GWMA - TMDL Compliance Monitoring

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| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | LCS/LCSD Batch Number | | | |
|---------------------------|-------------|-----------|------------|---------------|----------------|-----------------------|-----|--------|------------|
| 099-09-010-7222 | LCS | Aqueous | N/A | 07/08/15 | 07/08/15 19:30 | F0708TSSL2 | | | |
| 099-09-010-7222 | LCSD | Aqueous | N/A | 07/08/15 | 07/08/15 19:30 | F0708TSSL2 | | | |
| Parameter | Spike Added | LCS Conc. | LCS %Rec. | LCSD Conc. | LCSD %Rec. | %Rec. CL | RPD | RPD CL | Qualifiers |
| Solids, Total Suspended | 100.0 | 104.0 | 104 | 108.0 | 108 | 80-120 | 4 | 0-20 | |

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - LCS/LCSD

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 07/07/15
Work Order: 15-07-0283
Preparation: N/A
Method: SM 2540 D

Project: GWMA - TMDL Compliance Monitoring

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| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | LCS/LCSD Batch Number | | | |
|---------------------------|-------------|-----------|------------|---------------|----------------|-----------------------|-----|--------|------------|
| 099-09-010-7224 | LCS | Aqueous | N/A | 07/09/15 | 07/09/15 20:00 | F0709TSSL1 | | | |
| 099-09-010-7224 | LCSD | Aqueous | N/A | 07/09/15 | 07/09/15 20:00 | F0709TSSL1 | | | |
| Parameter | Spike Added | LCS Conc. | LCS %Rec. | LCSD Conc. | LCSD %Rec. | %Rec. CL | RPD | RPD CL | Qualifiers |
| Solids, Total Suspended | 100.0 | 106.0 | 106 | 110.0 | 110 | 80-120 | 4 | 0-20 | |

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RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - LCS/LCSD

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 07/07/15
Work Order: 15-07-0283
Preparation: EPA 1631E Total
Method: EPA 1631E

Project: GWMA - TMDL Compliance Monitoring

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| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | LCS/LCSD Batch Number | | | |
|---------------------------|-------------|-----------|------------|---------------|----------------|-----------------------|-----|--------|------------|
| 099-15-224-93 | LCS | Aqueous | Hg/AF 1 | 07/16/15 | 07/16/15 00:00 | 150716L01 | | | |
| 099-15-224-93 | LCSD | Aqueous | Hg/AF 1 | 07/16/15 | 07/16/15 00:00 | 150716L01 | | | |
| Parameter | Spike Added | LCS Conc. | LCS %Rec. | LCSD Conc. | LCSD %Rec. | %Rec. CL | RPD | RPD CL | Qualifiers |
| Mercury | 0.02000 | 0.02064 | 103 | 0.02204 | 110 | 71-125 | 7 | 0-20 | |

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RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - LCS/LCSD

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 07/07/15
Work Order: 15-07-0283
Preparation: Filtered
Method: EPA 1631E

Project: GWMA - TMDL Compliance Monitoring

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| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | LCS/LCSD Batch Number | | | |
|---------------------------|-------------|-----------|------------|---------------|----------------|-----------------------|-----|--------|------------|
| 099-15-226-66 | LCS | Aqueous | Hg/AF 1 | 07/16/15 | 07/16/15 00:00 | 150716L01F | | | |
| 099-15-226-66 | LCSD | Aqueous | Hg/AF 1 | 07/16/15 | 07/16/15 00:00 | 150716L01F | | | |
| Parameter | Spike Added | LCS Conc. | LCS %Rec. | LCSD Conc. | LCSD %Rec. | %Rec. CL | RPD | RPD CL | Qualifiers |
| Mercury | 0.02000 | 0.02064 | 103 | 0.02204 | 110 | 71-125 | 7 | 0-20 | |

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - LCS/LCSD

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 07/07/15
Work Order: 15-07-0283
Preparation: EPA 3005A Total
Method: EPA 1640

Project: GWMA - TMDL Compliance Monitoring

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| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | LCS/LCSD Batch Number | | | |
|---------------------------|-------------|-----------|------------|---------------|----------------|-----------------------|-----|--------|------------|
| 099-13-067-524 | LCS | Aqueous | ICP/MS 05 | 07/10/15 | 07/10/15 18:05 | 150710L02 | | | |
| 099-13-067-524 | LCSD | Aqueous | ICP/MS 05 | 07/10/15 | 07/10/15 18:13 | 150710L02 | | | |
| Parameter | Spike Added | LCS Conc. | LCS %Rec. | LCSD Conc. | LCSD %Rec. | %Rec. CL | RPD | RPD CL | Qualifiers |
| Cadmium | 0.5000 | 0.5029 | 101 | 0.4896 | 98 | 70-130 | 3 | 0-20 | |
| Chromium | 5.000 | 5.274 | 105 | 5.339 | 107 | 70-130 | 1 | 0-20 | |
| Copper | 0.5000 | 0.5461 | 109 | 0.5323 | 106 | 70-130 | 3 | 0-20 | |
| Lead | 0.5000 | 0.4841 | 97 | 0.4879 | 98 | 70-130 | 1 | 0-20 | |
| Zinc | 5.000 | 4.933 | 99 | 4.836 | 97 | 70-130 | 2 | 0-20 | |

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - LCS/LCSD

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 07/07/15
Work Order: 15-07-0283
Preparation: EPA 3005A Filt.
Method: EPA 1640

Project: GWMA - TMDL Compliance Monitoring

Page 6 of 8

| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | LCS/LCSD Batch Number | | | |
|---------------------------|-------------|-----------|------------|---------------|----------------|-----------------------|-----|--------|------------|
| 099-15-823-160 | LCS | Aqueous | ICP/MS 05 | 07/10/15 | 07/10/15 18:05 | 150710L02F | | | |
| 099-15-823-160 | LCSD | Aqueous | ICP/MS 05 | 07/10/15 | 07/10/15 18:13 | 150710L02F | | | |
| Parameter | Spike Added | LCS Conc. | LCS %Rec. | LCSD Conc. | LCSD %Rec. | %Rec. CL | RPD | RPD CL | Qualifiers |
| Cadmium | 0.5000 | 0.5029 | 101 | 0.4896 | 98 | 70-130 | 3 | 0-20 | |
| Chromium | 5.000 | 5.274 | 105 | 5.339 | 107 | 70-130 | 1 | 0-20 | |
| Copper | 0.5000 | 0.5461 | 109 | 0.5323 | 106 | 70-130 | 3 | 0-20 | |
| Lead | 0.5000 | 0.4841 | 97 | 0.4879 | 98 | 70-130 | 1 | 0-20 | |
| Zinc | 5.000 | 4.933 | 99 | 4.836 | 97 | 70-130 | 2 | 0-20 | |


 Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - LCS/LCSD

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 07/07/15
Work Order: 15-07-0283
Preparation: EPA 3510C
Method: EPA 8081A

Project: GWMA - TMDL Compliance Monitoring

Page 7 of 8

| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | LCS/LCSD Batch Number | | | | |
|---------------------------|-------------|-----------|------------|---------------|----------------|-----------------------|--------|-----|--------|------------|
| 099-16-036-21 | LCS | Aqueous | GC 44 | 07/08/15 | 07/10/15 11:14 | 150708L11 | | | | |
| 099-16-036-21 | LCSD | Aqueous | GC 44 | 07/08/15 | 07/10/15 11:29 | 150708L11 | | | | |
| Parameter | Spike Added | LCS Conc. | LCS %Rec. | LCSD Conc. | LCSD %Rec. | %Rec. CL | ME CL | RPD | RPD CL | Qualifiers |
| Aldrin | 50.00 | 41.54 | 83 | 41.04 | 82 | 50-150 | 33-167 | 1 | 0-25 | |
| 4,4'-DDD | 50.00 | 43.19 | 86 | 40.18 | 80 | 50-150 | 33-167 | 7 | 0-25 | |
| 4,4'-DDE | 50.00 | 47.42 | 95 | 45.25 | 91 | 50-150 | 33-167 | 5 | 0-25 | |
| 4,4'-DDT | 50.00 | 44.12 | 88 | 41.77 | 84 | 50-150 | 33-167 | 5 | 0-25 | |
| Alpha Chlordane | 50.00 | 43.74 | 87 | 41.63 | 83 | 50-150 | 33-167 | 5 | 0-25 | |
| Dieldrin | 50.00 | 45.14 | 90 | 42.96 | 86 | 50-150 | 33-167 | 5 | 0-25 | |
| Gamma Chlordane | 50.00 | 42.46 | 85 | 40.57 | 81 | 50-150 | 33-167 | 5 | 0-25 | |
| Endrin | 50.00 | 47.12 | 94 | 44.84 | 90 | 50-150 | 33-167 | 5 | 0-25 | |
| Gamma-BHC | 50.00 | 42.03 | 84 | 40.92 | 82 | 50-150 | 33-167 | 3 | 0-25 | |
| Heptachlor | 50.00 | 45.14 | 90 | 43.85 | 88 | 50-150 | 33-167 | 3 | 0-25 | |
| Heptachlor Epoxide | 50.00 | 43.33 | 87 | 41.75 | 84 | 50-150 | 33-167 | 4 | 0-25 | |

Total number of LCS compounds: 11

Total number of ME compounds: 0

Total number of ME compounds allowed: 1

LCS ME CL validation result: Pass

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - LCS/LCSD

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 07/07/15
Work Order: 15-07-0283
Preparation: EPA 3510C
Method: EPA 8270C SIM PCB Congeners

Project: GWMA - TMDL Compliance Monitoring

Page 8 of 8

| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | LCS/LCSD Batch Number | | | | |
|---------------------------|-------------|-----------|------------|---------------|----------------|-----------------------|--------|-----|--------|------------|
| 099-16-414-44 | LCS | Aqueous | GC/MS HHH | 07/08/15 | 07/09/15 17:13 | 150708L12 | | | | |
| 099-16-414-44 | LCSD | Aqueous | GC/MS HHH | 07/08/15 | 07/09/15 17:38 | 150708L12 | | | | |
| Parameter | Spike Added | LCS Conc. | LCS %Rec. | LCSD Conc. | LCSD %Rec. | %Rec. CL | ME CL | RPD | RPD CL | Qualifiers |
| PCB018 | 0.5000 | 0.3980 | 80 | 0.4263 | 85 | 50-150 | 33-167 | 7 | 0-25 | |
| PCB028 | 0.5000 | 0.4062 | 81 | 0.4387 | 88 | 50-150 | 33-167 | 8 | 0-25 | |
| PCB044 | 0.5000 | 0.3889 | 78 | 0.4290 | 86 | 50-150 | 33-167 | 10 | 0-25 | |
| PCB052 | 0.5000 | 0.3671 | 73 | 0.4025 | 81 | 50-150 | 33-167 | 9 | 0-25 | |
| PCB066 | 0.5000 | 0.4692 | 94 | 0.5166 | 103 | 50-150 | 33-167 | 10 | 0-25 | |
| PCB077 | 0.5000 | 0.4135 | 83 | 0.4554 | 91 | 50-150 | 33-167 | 10 | 0-25 | |
| PCB101 | 0.5000 | 0.3853 | 77 | 0.4270 | 85 | 50-150 | 33-167 | 10 | 0-25 | |
| PCB105 | 0.5000 | 0.4300 | 86 | 0.4735 | 95 | 50-150 | 33-167 | 10 | 0-25 | |
| PCB118 | 0.5000 | 0.4439 | 89 | 0.4937 | 99 | 50-150 | 33-167 | 11 | 0-25 | |
| PCB126 | 0.5000 | 0.4182 | 84 | 0.4702 | 94 | 50-150 | 33-167 | 12 | 0-25 | |
| PCB128 | 0.5000 | 0.3946 | 79 | 0.4398 | 88 | 50-150 | 33-167 | 11 | 0-25 | |
| PCB170 | 0.5000 | 0.4280 | 86 | 0.4587 | 92 | 50-150 | 33-167 | 7 | 0-25 | |
| PCB180 | 0.5000 | 0.4286 | 86 | 0.4842 | 97 | 50-150 | 33-167 | 12 | 0-25 | |
| PCB187 | 0.5000 | 0.4109 | 82 | 0.4581 | 92 | 50-150 | 33-167 | 11 | 0-25 | |
| PCB195 | 0.5000 | 0.4360 | 87 | 0.4716 | 94 | 50-150 | 33-167 | 8 | 0-25 | |
| PCB206 | 0.5000 | 0.4051 | 81 | 0.4408 | 88 | 50-150 | 33-167 | 8 | 0-25 | |
| PCB209 | 0.5000 | 0.4035 | 81 | 0.4445 | 89 | 50-150 | 33-167 | 10 | 0-25 | |

Total number of LCS compounds: 17

Total number of ME compounds: 0

Total number of ME compounds allowed: 1

LCS ME CL validation result: Pass

RPD: Relative Percent Difference. CL: Control Limits

Glossary of Terms and Qualifiers

Work Order: 15-07-0283

Page 1 of 1

| <u>Qualifiers</u> | <u>Definition</u> |
|-------------------|---|
| * | See applicable analysis comment. |
| < | Less than the indicated value. |
| > | Greater than the indicated value. |
| 1 | Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification. |
| 2 | Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification. |
| 3 | Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control. |
| 4 | The MS/MSD RPD was out of control due to suspected matrix interference. |
| 5 | The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference. |
| 6 | Surrogate recovery below the acceptance limit. |
| 7 | Surrogate recovery above the acceptance limit. |
| B | Analyte was present in the associated method blank. |
| BU | Sample analyzed after holding time expired. |
| BV | Sample received after holding time expired. |
| CI | See case narrative. |
| E | Concentration exceeds the calibration range. |
| ET | Sample was extracted past end of recommended max. holding time. |
| HD | The chromatographic pattern was inconsistent with the profile of the reference fuel standard. |
| HDH | The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected). |
| HDL | The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected). |
| J | Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated. |
| JA | Analyte positively identified but quantitation is an estimate. |
| ME | LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean). |
| ND | Parameter not detected at the indicated reporting limit. |
| Q | Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater. |
| SG | The sample extract was subjected to Silica Gel treatment prior to analysis. |
| X | % Recovery and/or RPD out-of-range. |
| Z | Analyte presence was not confirmed by second column or GC/MS analysis. |
| | Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis. |
| | Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time. |
| | A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations. |

Chain of Custody Record & Laboratory Analysis Request

Laboratory Number: _____

Date: _____

Project Name: **GWMA-TMDL Compliance Monitoring**

Project Number: **141205-01.01**

Project Manager: **Andy Martin**

Phone Number: **(949) 334-9630**

Shipment Method: **Courier**

Test Parameters



15-07-0283

| Line | Field Sample ID | Collection Date/Time | Matrix | No. of Containers | Test Parameters | | | | | | | Comments/Preservation | | |
|------|-----------------------|----------------------|--------|-------------------|-----------------|----------------------------|-----------------------------|---------------------------|---------------|---|--|-----------------------|--|---------------|
| | | | | | TSS | Total and dissolved metals | Total and dissolved mercury | Organochlorine pesticides | PCB Congeners | | | | | |
| 1 | LE-RW-22-G-S-20150707 | 7-7-15 / 8:20 | Water | 8 | 1 | 2 | 2 | 2 | 1 | | | | | |
| 2 | CE-RW-22-G-M-20150707 | 7-7-15 / 8:20 | } | 1 | 1 | | | | | | | | | |
| 3 | CE-RW-22-G-B-20150707 | 7-7-15 / 8:20 | | 1 | 1 | | | | | | | | | |
| 4 | CE-RW-21-G-S-20150707 | 7-7-15 / 8:55 | | 1 | 1 | | | | | | | | | |
| 5 | LE-RW-21-G-S-20150707 | ↓ | | 8 | 1 | 2 | 2 | 2 | 1 | | | | | |
| 6 | LE-RW-21-G-M-20150707 | | | 1 | 1 | | | | | | | | | |
| 7 | LE-RW-21-G-B-20150707 | | | 1 | 1 | | | | | | | | | |
| 8 | SP-RW-18-G-S-20150707 | 7-7-15 / 9:20 | | } | 8 | 1 | 2 | 2 | 2 | 1 | | | | |
| 9 | SP-RW-18-G-M-20150707 | ↓ | 2 | | 2 | | | | | | | | | lab duplicate |
| 10 | SP-RW-18-G-B-20150707 | | 1 | | 1 | | | | | | | | | |
| 11 | OB-RW-17-G-S-20150707 | 7-7-15 / 10:20 | } | 8 | 1 | 2 | 2 | 2 | 1 | | | | | |
| 12 | OB-RW-17-G-M-20150707 | ↓ | | 1 | 1 | | | | | | | | | |
| 13 | OB-RW-17-G-B-20150707 | | | 1 | 1 | | | | | | | | | |
| 14 | OB-RW-17-G-S-20150707 | | | 1 | 1 | | | | | | | | | |
| 15 | | | | | | | | | | | | | | |

Notes: 48 total

Relinquished By: Nicholas DaSilva Company: Coastal Resources Mgmt
 Signature/Printed Name: _____ Date/Time: 7-7-15 / 13:00

Received By: Denny Krahan Company: ECI
 Signature/Printed Name: _____ Date/Time: 7/7/15 13:00

Relinquished By: Denny Krahan Company: ECI
 Signature/Printed Name: _____ Date/Time: 7/7/15 14:00

Received By: Melina Pirelli Soriano Company: ECI
 Signature/Printed Name: _____ Date/Time: 7/7/15 14:00

SAMPLE RECEIPT CHECKLIST

COOLER 1 OF 4

CLIENT: ANCHOR QEA

DATE: 07 / 07 / 2015

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)
 Thermometer ID: SC5 (CF:-0.2°C); Temperature (w/o CF): 4.6 °C (w/ CF): 4.4 °C; Blank Sample
 Sample(s) outside temperature criteria (PM/APM contacted by: _____)
 Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling
 Sample(s) received at ambient temperature; placed on ice for transport by courier
 Ambient Temperature: Air Filter Checked by: 804

CUSTODY SEAL:
 Cooler Present and Intact Present but Not Intact Not Present N/A Checked by: 804
 Sample(s) Present and Intact Present but Not Intact Not Present N/A Checked by: 1017

| SAMPLE CONDITION: | Yes | No | N/A |
|--|-------------------------------------|-------------------------------------|-------------------------------------|
| Chain-of-Custody (COC) document(s) received with samples | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| COC document(s) received complete | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> Sampling date <input type="checkbox"/> Sampling time <input type="checkbox"/> Matrix <input type="checkbox"/> Number of containers | | | |
| <input type="checkbox"/> No analysis requested <input type="checkbox"/> Not relinquished <input type="checkbox"/> No relinquished date <input type="checkbox"/> No relinquished time | | | |
| Sampler's name indicated on COC | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Sample container label(s) consistent with COC | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Sample container(s) intact and in good condition | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Proper containers for analyses requested | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Sufficient volume/mass for analyses requested | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Samples received within holding time | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Aqueous samples for certain analyses received within 15-minute holding time | | | |
| <input type="checkbox"/> pH <input type="checkbox"/> Residual Chlorine <input type="checkbox"/> Dissolved Sulfide <input type="checkbox"/> Dissolved Oxygen | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Proper preservation chemical(s) noted on COC and/or sample container | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Unpreserved aqueous sample(s) received for certain analyses | | | |
| <input type="checkbox"/> Volatile Organics <input checked="" type="checkbox"/> Total Metals <input checked="" type="checkbox"/> Dissolved Metals | | | |
| Container(s) for certain analysis free of headspace | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> Volatile Organics <input type="checkbox"/> Dissolved Gases (RSK-175) <input type="checkbox"/> Dissolved Oxygen (SM 4500) | | | |
| <input type="checkbox"/> Carbon Dioxide (SM 4500) <input type="checkbox"/> Ferrous Iron (SM 3500) <input type="checkbox"/> Hydrogen Sulfide (Hach) | | | |
| Tedlar™ bag(s) free of condensation | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

CONTAINER TYPE: (Trip Blank Lot Number: _____)
Aqueous: VOA VOAh VOAna₂ 100PJ 100PJna₂ 125AGB 125AGBh 125AGBp 125PB
 125PBz_{na} 250AGB 250CGB 250CGBs 250PB 250PBn 500AGB 500AGJ 500AGJs
 500PB 1AGB 1AGBna₂ 1AGBs 1PB 1PBna _____ _____ _____
Solid: 4ozCGJ 8ozCGJ 16ozCGJ Sleeve (_____) EnCores® (_____) TerraCores® (_____) _____
Air: Tedlar™ Canister Sorbent Tube PUF _____ **Other Matrix** (____): _____ _____
 Container: A = Amber, B = Bottle, C = Clear, E = Envelope, G = Glass, J = Jar, P = Plastic, and Z = Ziploc/Resealable Bag
 Preservative: b = buffered, f = filtered, h = HCl, n = HNO₃, na = NaOH, na₂ = Na₂S₂O₃, p = H₃PO₄, Labeled/Checked by: 1017
 s = H₂SO₄, u = ultra-pure, z_{na} = Zn(CH₃CO₂)₂ + NaOH Reviewed by: 826

SAMPLE RECEIPT CHECKLIST

COOLER 2 OF 4

CLIENT: ANCHOR QEA

DATE: 07 / 07 / 2015

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC5 (CF:-0.2°C); Temperature (w/o CF): 4.3 °C (w/ CF): 4.1 °C; Blank Sample

- Sample(s) outside temperature criteria (PM/APM contacted by: _____)
 - Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling
 - Sample(s) received at ambient temperature; placed on ice for transport by courier
- Ambient Temperature: Air Filter

Checked by: 804

CUSTODY SEAL:

- Cooler Present and Intact Present but Not Intact Not Present N/A
- Sample(s) Present and Intact Present but Not Intact Not Present N/A

Checked by: 804

Checked by: 1017

SAMPLE CONDITION:

| | Yes | No | N/A |
|--|-------------------------------------|--------------------------|-------------------------------------|
| Chain-of-Custody (COC) document(s) received with samples | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| COC document(s) received complete | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> Sampling date <input type="checkbox"/> Sampling time <input type="checkbox"/> Matrix <input type="checkbox"/> Number of containers | | | |
| <input type="checkbox"/> No analysis requested <input type="checkbox"/> Not relinquished <input type="checkbox"/> No relinquished date <input type="checkbox"/> No relinquished time | | | |
| Sampler's name indicated on COC | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Sample container label(s) consistent with COC | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Sample container(s) intact and in good condition | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Proper containers for analyses requested | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Sufficient volume/mass for analyses requested | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Samples received within holding time | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Aqueous samples for certain analyses received within 15-minute holding time | | | |
| <input type="checkbox"/> pH <input type="checkbox"/> Residual Chlorine <input type="checkbox"/> Dissolved Sulfide <input type="checkbox"/> Dissolved Oxygen | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Proper preservation chemical(s) noted on COC and/or sample container | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Unpreserved aqueous sample(s) received for certain analyses | | | |
| <input type="checkbox"/> Volatile Organics <input checked="" type="checkbox"/> Total Metals <input checked="" type="checkbox"/> Dissolved Metals | | | |
| Container(s) for certain analysis free of headspace | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> Volatile Organics <input type="checkbox"/> Dissolved Gases (RSK-175) <input type="checkbox"/> Dissolved Oxygen (SM 4500) | | | |
| <input type="checkbox"/> Carbon Dioxide (SM 4500) <input type="checkbox"/> Ferrous Iron (SM 3500) <input type="checkbox"/> Hydrogen Sulfide (Hach) | | | |
| Tedlar™ bag(s) free of condensation | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

CONTAINER TYPE:

(Trip Blank Lot Number: _____)

- Aqueous:** VOA VOAh VOAna₂ 100PJ 100PJna₂ 125AGB 125AGBh 125AGBp 125PB
 125PBz_{na} 250AGB 250CGB 250CGBs 250PB 250PBn 500AGB 500AGJ 500AGJs
 500PB 1AGB 1AGBna₂ 1AGBs 1PB 1PBna _____ _____ _____

- Solid:** 4ozCGJ 8ozCGJ 16ozCGJ Sleeve (_____) EnCores® (_____) TerraCores® (_____) _____

- Air:** Tedlar™ Canister Sorbent Tube PUF _____ **Other Matrix** (____): _____ _____

Container: A = Amber, B = Bottle, C = Clear, E = Envelope, G = Glass, J = Jar, P = Plastic, and Z = Ziploc/Resealable Bag

Preservative: b = buffered, f = filtered, h = HCl, n = HNO₃, na = NaOH, na₂ = Na₂S₂O₃, p = H₃PO₄, Labeled/Checked by: 1017

s = H₂SO₄, u = ultra-pure, z_{na} = Zn(CH₃CO₂)₂ + NaOH

Reviewed by: 826

SAMPLE RECEIPT CHECKLIST

COOLER 3 OF 4

CLIENT: ANCHOR QEA

DATE: 07 / 07 / 2015

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC5 (CF:-0.2°C); Temperature (w/o CF): 4.5 °C (w/ CF): 4.3 °C; Blank Sample

Sample(s) outside temperature criteria (PM/APM contacted by: _____)

Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: Air Filter

Checked by: 804

CUSTODY SEAL:

Cooler Present and Intact Present but Not Intact Not Present N/A Checked by: 804

Sample(s) Present and Intact Present but Not Intact Not Present N/A Checked by: 1017

SAMPLE CONDITION:

| | Yes | No | N/A |
|--|-------------------------------------|--------------------------|-------------------------------------|
| Chain-of-Custody (COC) document(s) received with samples | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| COC document(s) received complete | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> Sampling date <input type="checkbox"/> Sampling time <input type="checkbox"/> Matrix <input type="checkbox"/> Number of containers | | | |
| <input type="checkbox"/> No analysis requested <input type="checkbox"/> Not relinquished <input type="checkbox"/> No relinquished date <input type="checkbox"/> No relinquished time | | | |
| Sampler's name indicated on COC | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Sample container label(s) consistent with COC | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Sample container(s) intact and in good condition | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Proper containers for analyses requested | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Sufficient volume/mass for analyses requested | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Samples received within holding time | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Aqueous samples for certain analyses received within 15-minute holding time | | | |
| <input type="checkbox"/> pH <input type="checkbox"/> Residual Chlorine <input type="checkbox"/> Dissolved Sulfide <input type="checkbox"/> Dissolved Oxygen | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Proper preservation chemical(s) noted on COC and/or sample container | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Unpreserved aqueous sample(s) received for certain analyses | | | |
| <input type="checkbox"/> Volatile Organics <input checked="" type="checkbox"/> Total Metals <input checked="" type="checkbox"/> Dissolved Metals | | | |
| Container(s) for certain analysis free of headspace | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> Volatile Organics <input type="checkbox"/> Dissolved Gases (RSK-175) <input type="checkbox"/> Dissolved Oxygen (SM 4500) | | | |
| <input type="checkbox"/> Carbon Dioxide (SM 4500) <input type="checkbox"/> Ferrous Iron (SM 3500) <input type="checkbox"/> Hydrogen Sulfide (Hach) | | | |
| Tedlar™ bag(s) free of condensation | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

CONTAINER TYPE:

(Trip Blank Lot Number: _____)

Aqueous: VOA VOA_h VOA_{na2} 100PJ 100PJ_{na2} 125AGB 125AGB_h 125AGB_p 125PB
 125PB_{z²na} 250AGB 250CGB 250CGB_s 250PB 250PB_n 500AGB 500AGJ 500AGJ_s
 500PB 1AGB 1AGB_{na2} 1AGB_s 1PB 1PB_{na} _____ _____ _____
 Solid: 4ozCGJ 8ozCGJ 16ozCGJ Sleeve (_____) EnCores® (_____) TerraCores® (_____) _____
 Air: Tedlar™ Canister Sorbent Tube PUF _____ Other Matrix (____): _____ _____

Container: A = Amber, B = Bottle, C = Clear, E = Envelope, G = Glass, J = Jar, P = Plastic, and Z = Ziploc/Resealable Bag

Preservative: b = buffered, f = filtered, h = HCl, n = HNO₃, na = NaOH, na₂ = Na₂S₂O₃, p = H₃PO₄, Labeled/Checked by: 1017

s = H₂SO₄, u = ultra-pure, z_{na} = Zn(CH₃CO₂)₂ + NaOH

Reviewed by: 804

SAMPLE RECEIPT CHECKLIST

COOLER 9 OF 4

CLIENT: ANCHOR QEA

DATE: 07 / 07 / 2015

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)
 Thermometer ID: SC5 (CF:-0.2°C); Temperature (w/o CF): 4.7 °C (w/ CF): 4.5 °C; Blank Sample
 Sample(s) outside temperature criteria (PM/APM contacted by: _____)
 Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling
 Sample(s) received at ambient temperature; placed on ice for transport by courier
 Ambient Temperature: Air Filter Checked by: 804

CUSTODY SEAL:
 Cooler Present and Intact Present but Not Intact Not Present N/A Checked by: 804
 Sample(s) Present and Intact Present but Not Intact Not Present N/A Checked by: 1017

| SAMPLE CONDITION: | Yes | No | N/A |
|--|-------------------------------------|--------------------------|-------------------------------------|
| Chain-of-Custody (COC) document(s) received with samples | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| COC document(s) received complete | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> Sampling date <input type="checkbox"/> Sampling time <input type="checkbox"/> Matrix <input type="checkbox"/> Number of containers | | | |
| <input type="checkbox"/> No analysis requested <input type="checkbox"/> Not relinquished <input type="checkbox"/> No relinquished date <input type="checkbox"/> No relinquished time | | | |
| Sampler's name indicated on COC | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Sample container label(s) consistent with COC | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Sample container(s) intact and in good condition | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Proper containers for analyses requested | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Sufficient volume/mass for analyses requested | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Samples received within holding time | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Aqueous samples for certain analyses received within 15-minute holding time | | | |
| <input type="checkbox"/> pH <input type="checkbox"/> Residual Chlorine <input type="checkbox"/> Dissolved Sulfide <input type="checkbox"/> Dissolved Oxygen | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Proper preservation chemical(s) noted on COC and/or sample container | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Unpreserved aqueous sample(s) received for certain analyses | | | |
| <input type="checkbox"/> Volatile Organics <input checked="" type="checkbox"/> Total Metals <input checked="" type="checkbox"/> Dissolved Metals | | | |
| Container(s) for certain analysis free of headspace | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> Volatile Organics <input type="checkbox"/> Dissolved Gases (RSK-175) <input type="checkbox"/> Dissolved Oxygen (SM 4500) | | | |
| <input type="checkbox"/> Carbon Dioxide (SM 4500) <input type="checkbox"/> Ferrous Iron (SM 3500) <input type="checkbox"/> Hydrogen Sulfide (Hach) | | | |
| Tedlar™ bag(s) free of condensation | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

CONTAINER TYPE: (Trip Blank Lot Number: _____)
Aqueous: VOA VOA_h VOA_{na2} 100PJ 100PJ_{na2} 125AGB 125AGB_h 125AGB_p 125PB
 125PB_{z_{na}} 250AGB 250CGB 250CGB_s 250PB 250PB_n 500AGB 500AGJ 500AGJ_s
 500PB 1AGB 1AGB_{na2} 1AGB_s 1PB 1PB_{na} _____ _____ _____ _____
Solid: 4ozCGJ 8ozCGJ 16ozCGJ Sleeve (_____) EnCores® (_____) TerraCores® (_____) _____
Air: Tedlar™ Canister Sorbent Tube PUF _____ **Other Matrix** (____): _____ _____
 Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag
 Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO₃, **na** = NaOH, **na₂** = Na₂S₂O₃, **p** = H₃PO₄, Labeled/Checked by: 1017
Reviewed by: 804
 s = H₂SO₄, u = ultra-pure, z_{na} = Zn(CH₃CO₂)₂ + NaOH

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SAMPLE ANOMALY REPORT

DATE: **07 / 07 / 2015**

SAMPLES, CONTAINERS, AND LABELS:

- Sample(s) NOT RECEIVED but listed on COC
- Sample(s) received but NOT LISTED on COC
- Holding time expired (list client or ECI sample ID and analysis)
- Insufficient sample amount for requested analysis (list analysis)
- Improper container(s) used (list analysis)
- Improper preservative used (list analysis)
- No preservative noted on COC or label (list analysis and notify lab)
- Sample container(s) not labeled
- Client sample label(s) illegible (list container type and analysis)
- Client sample label(s) do not match COC (comment)
 - Project information
 - Client sample ID
 - Sampling date and/or time
 - Number of container(s)
 - Requested analysis
- Sample container(s) compromised (comment)
 - Broken
 - Water present in sample container
- Air sample container(s) compromised (comment)
 - Flat
 - Very low in volume
 - Leaking (not transferred; duplicate bag submitted)
 - Leaking (transferred into ECI Tedlar™ bags*)
 - Leaking (transferred into client's Tedlar™ bags*)

* Transferred at client's request.

MISCELLANEOUS: (Describe)

HEADSPACE:

(Containers with bubble > 6 mm or ¼ inch for volatile organic or dissolved gas analysis)

| ECI Sample ID | ECI Container ID | Total Number** | ECI Sample ID | ECI Container ID | Total Number** |
|---------------|------------------|----------------|---------------|------------------|----------------|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

Comments: _____

** Record the total number of containers (i.e., vials or bottles) for the affected sample.

Comments

-(9) 1 of 2 1 Liter PB labeled as
SP-RW-18-M-G-S-20150707

Comments

(Containers with bubble for other analysis)

| ECI Sample ID | ECI Container ID | Total Number** | Requested Analysis |
|---------------|------------------|----------------|--------------------|
| | | | |
| | | | |
| | | | |
| | | | |

Reported by: 1017
 Reviewed by: SJK





Calscience



WORK ORDER NUMBER: 14-09-2270

The difference is service



AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: ANCHOR QEA, LLC

Client Project Name: GWMA - TMDL Compliance Monitoring

Attention: Andy Martin
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Danielle Gonsman

Approved for release on 10/15/2014 by:
Danielle Gonsman
Project Manager

ResultLink ▶

Email your PM ▶



Eurofins Calscience, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

Contents

Client Project Name: GWMA - TMDL Compliance Monitoring
 Work Order Number: 14-09-2270

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CASE NARRATIVE

Calscience Work Order No.: 14-09-2270
Project ID: GWMA-TMDL Compliance Monitoring

Provided below is a narrative of our analytical effort, including any unique features or anomalies encountered as part of the analysis of the seawater samples.

Sample Condition on Receipt

Fifteen seawater samples were received for this project on 29 September, 2014. The samples were transferred to the laboratory in an ice-chest with wet ice, following strict chain-of-custody (COC) procedures. The temperature of the samples upon receipt at the laboratory was 2.5-2.7°C. All samples were given laboratory identification numbers and logged into the Laboratory Information Management System (LIMS).

Tests Performed

Total Suspended Solids by SM 2540B (M)
Total and Dissolved Metals by EPA 1640/1631
Chlorinated Pesticides by EPA 8081A
PCB Congeners by EPA 8270C SIM

Data Summary

Samples were filtered in the laboratory for the dissolved metals analyses.

Holding times

All holding times were met.

Calibration

Frequency and control criteria for initial and continuing calibration verifications were met.

Reporting Limits

All Method Detection Limits were met. The results were evaluated to the MDL, and where applicable, "J" flags were reported.

Blanks

Concentrations of target analytes in the method blank were found to be below reporting limits for all testing.

Laboratory Control Samples

A Laboratory Control Sample (LCS) analysis was performed at the required frequencies, and unless otherwise noted, all parameters were within the established control limits.

Matrix Spikes and QC Duplicates

Matrix spike analyses and/or QC Duplicates were performed for each applicable analysis when additional volume was available. All parameters were within the established control limits unless otherwise noted (non-project spike/duplicate samples, if any, are not discussed).

Surrogates

Surrogate recoveries for all applicable tests and samples were within the established control limits.

Acronyms

LCS - Laboratory Control Sample
MS/MSD- Matrix Spike/Matrix Spike Duplicate
PDS - Post Digestion Spike
RPD- Relative Percent Difference

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 09/29/14. They were assigned to Work Order 14-09-2270.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of ≤ 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

New York NELAP air certification does not certify for all reported methods and analytes, reference the accredited items here: http://www.calscience.com/PDF/New_York.pdf

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.



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Sample Summary

| | |
|------------------------------|---|
| Client: ANCHOR QEA, LLC | Work Order: 14-09-2270 |
| 27201 Puerta Real, Suite 350 | Project Name: GWMA - TMDL Compliance Monitoring |
| Mission Viejo, CA 92691-8306 | PO Number: |
| | Date/Time Received: 09/29/14 13:55 |
| | Number of Containers: 40 |

Attn: Andy Martin

| Sample Identification | Lab Number | Collection Date and Time | Number of Containers | Matrix |
|-----------------------|---------------|--------------------------|----------------------|-----------|
| OB-RW-16-G-S-20140928 | 14-09-2270-1 | 09/28/14 11:25 | 6 | Sea Water |
| OB-RW-16-G-M-20140928 | 14-09-2270-2 | 09/28/14 11:30 | 1 | Sea Water |
| OB-RW-16-G-B-20140928 | 14-09-2270-3 | 09/28/14 11:35 | 1 | Sea Water |
| IB-RW-12-G-S-20140928 | 14-09-2270-4 | 09/28/14 12:20 | 6 | Sea Water |
| IB-RW-12-G-M-20140928 | 14-09-2270-5 | 09/28/14 12:22 | 1 | Sea Water |
| IB-RW-12-G-B-20140928 | 14-09-2270-6 | 09/28/14 12:28 | 1 | Sea Water |
| IB-RW-13-G-S-20140928 | 14-09-2270-7 | 09/28/14 13:07 | 6 | Sea Water |
| IB-RW-13-G-B-20140928 | 14-09-2270-8 | 09/28/14 13:17 | 1 | Sea Water |
| IB-RW-13-G-M-20140928 | 14-09-2270-9 | 09/28/14 13:12 | 1 | Sea Water |
| IB-RW-14-G-S-20140928 | 14-09-2270-10 | 09/28/14 13:40 | 6 | Sea Water |
| IB-RW-14-G-M-20140928 | 14-09-2270-11 | 09/28/14 13:42 | 1 | Sea Water |
| IB-RW-14-G-B-20140928 | 14-09-2270-12 | 09/28/14 13:44 | 1 | Sea Water |
| IB-RW-15-G-S-20140928 | 14-09-2270-13 | 09/28/14 14:17 | 6 | Sea Water |
| IB-RW-15-G-M-20140928 | 14-09-2270-14 | 09/28/14 14:20 | 1 | Sea Water |
| IB-RW-15-G-B-20140928 | 14-09-2270-15 | 09/28/14 14:23 | 1 | Sea Water |


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Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 09/29/14
Work Order: 14-09-2270
Preparation: N/A
Method: SM 2540 D
Units: mg/L

Project: GWMA - TMDL Compliance Monitoring

Page 1 of 3

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OB-RW-16-G-S-20140928 | 14-09-2270-1-A | 09/28/14 11:25 | Sea Water | N/A | 10/03/14 | 10/03/14 13:20 | E1003TSSL1 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | ND | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OB-RW-16-G-M-20140928 | 14-09-2270-2-A | 09/28/14 11:30 | Sea Water | N/A | 10/03/14 | 10/03/14 13:20 | E1003TSSL1 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 1.0 | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OB-RW-16-G-B-20140928 | 14-09-2270-3-A | 09/28/14 11:35 | Sea Water | N/A | 10/03/14 | 10/03/14 13:20 | E1003TSSL1 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 4.3 | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IB-RW-12-G-S-20140928 | 14-09-2270-4-A | 09/28/14 12:20 | Sea Water | N/A | 10/03/14 | 10/03/14 13:20 | E1003TSSL1 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 1.4 | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IB-RW-12-G-M-20140928 | 14-09-2270-5-A | 09/28/14 12:22 | Sea Water | N/A | 10/03/14 | 10/03/14 13:20 | E1003TSSL1 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 3.3 | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IB-RW-12-G-B-20140928 | 14-09-2270-6-A | 09/28/14 12:28 | Sea Water | N/A | 10/03/14 | 10/03/14 13:20 | E1003TSSL1 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 3.3 | 1.0 | 0.95 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 09/29/14
Work Order: 14-09-2270
Preparation: N/A
Method: SM 2540 D
Units: mg/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IB-RW-13-G-S-20140928 | 14-09-2270-7-A | 09/28/14 13:07 | Sea Water | N/A | 10/03/14 | 10/03/14 13:20 | E1003TSSL1 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 1.1 | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IB-RW-13-G-B-20140928 | 14-09-2270-8-A | 09/28/14 13:17 | Sea Water | N/A | 10/03/14 | 10/03/14 13:20 | E1003TSSL1 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 2.4 | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IB-RW-13-G-M-20140928 | 14-09-2270-9-A | 09/28/14 13:12 | Sea Water | N/A | 10/03/14 | 10/03/14 13:20 | E1003TSSL1 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 1.3 | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IB-RW-14-G-S-20140928 | 14-09-2270-10-A | 09/28/14 13:40 | Sea Water | N/A | 10/03/14 | 10/03/14 13:20 | E1003TSSL1 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | ND | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IB-RW-14-G-M-20140928 | 14-09-2270-11-A | 09/28/14 13:42 | Sea Water | N/A | 10/03/14 | 10/03/14 13:20 | E1003TSSL1 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 2.5 | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IB-RW-14-G-B-20140928 | 14-09-2270-12-A | 09/28/14 13:44 | Sea Water | N/A | 10/03/14 | 10/03/14 13:20 | E1003TSSL1 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 1.2 | 1.0 | 0.95 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 09/29/14
Work Order: 14-09-2270
Preparation: N/A
Method: SM 2540 D
Units: mg/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IB-RW-15-G-S-20140928 | 14-09-2270-13-A | 09/28/14 14:17 | Sea Water | N/A | 10/03/14 | 10/03/14 13:20 | E1003TSSL1 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 1.8 | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IB-RW-15-G-M-20140928 | 14-09-2270-14-A | 09/28/14 14:20 | Sea Water | N/A | 10/03/14 | 10/03/14 13:20 | E1003TSSL1 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 1.4 | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IB-RW-15-G-B-20140928 | 14-09-2270-15-A | 09/28/14 14:23 | Sea Water | N/A | 10/03/14 | 10/03/14 13:20 | E1003TSSL1 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 1.5 | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|---------|------------|---------------|--------------------|-------------|
| Method Blank | 099-09-010-6817 | N/A | Aqueous | N/A | 10/03/14 | 10/03/14 13:20 | E1003TSSL1 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | ND | 1.0 | 0.95 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 09/29/14
Work Order: 14-09-2270
Preparation: EPA 1631E Total
Method: EPA 1631E
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

Page 1 of 1

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OB-RW-16-G-S-20140928 | 14-09-2270-1-E | 09/28/14 11:25 | Sea Water | Hg/AF 1 | 10/02/14 | 10/02/14 00:00 | 141002L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|----------|----------|----------|------|------------|
| Mercury | 0.000526 | 0.000500 | 0.000146 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IB-RW-12-G-S-20140928 | 14-09-2270-4-E | 09/28/14 12:20 | Sea Water | Hg/AF 1 | 10/02/14 | 10/02/14 00:00 | 141002L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|---------|----------|----------|------|------------|
| Mercury | 0.00131 | 0.000500 | 0.000146 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IB-RW-13-G-S-20140928 | 14-09-2270-7-E | 09/28/14 13:07 | Sea Water | Hg/AF 1 | 10/02/14 | 10/02/14 00:00 | 141002L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|----------|----------|----------|------|------------|
| Mercury | 0.000776 | 0.000500 | 0.000146 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IB-RW-14-G-S-20140928 | 14-09-2270-10-E | 09/28/14 13:40 | Sea Water | Hg/AF 1 | 10/02/14 | 10/02/14 00:00 | 141002L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|----------|----------|----------|------|------------|
| Mercury | 0.000779 | 0.000500 | 0.000146 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IB-RW-15-G-S-20140928 | 14-09-2270-13-E | 09/28/14 14:17 | Sea Water | Hg/AF 1 | 10/02/14 | 10/02/14 00:00 | 141002L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|---------|----------|----------|------|------------|
| Mercury | 0.00102 | 0.000500 | 0.000146 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|---------|------------|---------------|--------------------|-------------|
| Method Blank | 099-15-224-58 | N/A | Aqueous | Hg/AF 1 | 10/02/14 | 10/02/14 00:00 | 141002L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|----------|----------|------|------------|
| Mercury | ND | 0.000500 | 0.000146 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 09/29/14
Work Order: 14-09-2270
Preparation: Filtered
Method: EPA 1631E
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

Page 1 of 1

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OB-RW-16-G-S-20140928 | 14-09-2270-1-F | 09/28/14 11:25 | Sea Water | Hg/AF 1 | 10/02/14 | 10/02/14 00:00 | 141002L01F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|----------|----------|----------|------|------------|
| Mercury | 0.000282 | 0.000500 | 0.000146 | 1.00 | J |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IB-RW-12-G-S-20140928 | 14-09-2270-4-F | 09/28/14 12:20 | Sea Water | Hg/AF 1 | 10/02/14 | 10/02/14 00:00 | 141002L01F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|----------|----------|----------|------|------------|
| Mercury | 0.000416 | 0.000500 | 0.000146 | 1.00 | J |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IB-RW-13-G-S-20140928 | 14-09-2270-7-F | 09/28/14 13:07 | Sea Water | Hg/AF 1 | 10/02/14 | 10/02/14 00:00 | 141002L01F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|----------|----------|----------|------|------------|
| Mercury | 0.000677 | 0.000500 | 0.000146 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IB-RW-14-G-S-20140928 | 14-09-2270-10-F | 09/28/14 13:40 | Sea Water | Hg/AF 1 | 10/02/14 | 10/02/14 00:00 | 141002L01F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|----------|----------|----------|------|------------|
| Mercury | 0.000675 | 0.000500 | 0.000146 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IB-RW-15-G-S-20140928 | 14-09-2270-13-F | 09/28/14 14:17 | Sea Water | Hg/AF 1 | 10/02/14 | 10/02/14 00:00 | 141002L01F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|----------|----------|----------|------|------------|
| Mercury | 0.000427 | 0.000500 | 0.000146 | 1.00 | J |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|---------|------------|---------------|--------------------|-------------|
| Method Blank | 099-15-226-43 | N/A | Aqueous | Hg/AF 1 | 10/02/14 | 10/02/14 00:00 | 141002L01F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|----------|----------|------|------------|
| Mercury | ND | 0.000500 | 0.000146 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 09/29/14
Work Order: 14-09-2270
Preparation: EPA 3005A Total
Method: EPA 1640
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

Page 1 of 2

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OB-RW-16-G-S-20140928 | 14-09-2270-1-E | 09/28/14 11:25 | Sea Water | ICP/MS 05 | 10/09/14 | 10/11/14 22:56 | 141009L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0421 | 0.0300 | 0.00567 | 1.00 | |
| Chromium | 0.472 | 0.500 | 0.164 | 1.00 | J |
| Copper | 1.06 | 0.0300 | 0.00898 | 1.00 | |
| Lead | 0.227 | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 3.05 | 0.500 | 0.0736 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IB-RW-12-G-S-20140928 | 14-09-2270-4-E | 09/28/14 12:20 | Sea Water | ICP/MS 05 | 10/09/14 | 10/11/14 23:04 | 141009L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0546 | 0.0300 | 0.00567 | 1.00 | |
| Chromium | 0.587 | 0.500 | 0.164 | 1.00 | |
| Copper | 2.15 | 0.0300 | 0.00898 | 1.00 | |
| Lead | 0.534 | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 6.17 | 0.500 | 0.0736 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IB-RW-13-G-S-20140928 | 14-09-2270-7-E | 09/28/14 13:07 | Sea Water | ICP/MS 05 | 10/09/14 | 10/11/14 23:12 | 141009L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0498 | 0.0300 | 0.00567 | 1.00 | |
| Chromium | 0.566 | 0.500 | 0.164 | 1.00 | |
| Copper | 1.17 | 0.0300 | 0.00898 | 1.00 | |
| Lead | 0.365 | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 2.50 | 0.500 | 0.0736 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 09/29/14
Work Order: 14-09-2270
Preparation: EPA 3005A Total
Method: EPA 1640
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

Page 2 of 2

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IB-RW-14-G-S-20140928 | 14-09-2270-10-E | 09/28/14 13:40 | Sea Water | ICP/MS 05 | 10/09/14 | 10/11/14 23:20 | 141009L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0454 | 0.0300 | 0.00567 | 1.00 | |
| Chromium | 0.569 | 0.500 | 0.164 | 1.00 | |
| Copper | 2.40 | 0.0300 | 0.00898 | 1.00 | |
| Lead | 0.383 | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 2.16 | 0.500 | 0.0736 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IB-RW-15-G-S-20140928 | 14-09-2270-13-E | 09/28/14 14:17 | Sea Water | ICP/MS 05 | 10/09/14 | 10/11/14 23:28 | 141009L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0427 | 0.0300 | 0.00567 | 1.00 | |
| Chromium | 0.523 | 0.500 | 0.164 | 1.00 | |
| Copper | 1.58 | 0.0300 | 0.00898 | 1.00 | |
| Lead | 0.439 | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 3.59 | 0.500 | 0.0736 | 1.00 | |

| Method Blank | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|--------------|-------------------|---------------------|---------|------------|---------------|--------------------|-------------|
| Method Blank | 099-13-067-447 | N/A | Aqueous | ICP/MS 05 | 10/09/14 | 10/11/14 13:41 | 141009L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | ND | 0.0300 | 0.00567 | 1.00 | |
| Chromium | ND | 0.500 | 0.164 | 1.00 | |
| Copper | ND | 0.0300 | 0.00898 | 1.00 | |
| Lead | ND | 0.0300 | 0.0135 | 1.00 | |
| Zinc | ND | 0.500 | 0.0736 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 09/29/14
Work Order: 14-09-2270
Preparation: EPA 3005A Filt.
Method: EPA 1640
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

Page 1 of 2

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OB-RW-16-G-S-20140928 | 14-09-2270-1-F | 09/28/14 11:25 | Sea Water | ICP/MS 05 | 10/09/14 | 10/12/14 15:42 | 141009L01F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0450 | 0.0300 | 0.00567 | 1.00 | |
| Chromium | 0.276 | 0.500 | 0.164 | 1.00 | J |
| Copper | 0.852 | 0.0300 | 0.00898 | 1.00 | |
| Lead | 0.140 | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 3.52 | 0.500 | 0.0736 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IB-RW-12-G-S-20140928 | 14-09-2270-4-F | 09/28/14 12:20 | Sea Water | ICP/MS 05 | 10/09/14 | 10/12/14 15:50 | 141009L01F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0581 | 0.0300 | 0.00567 | 1.00 | |
| Chromium | 0.272 | 0.500 | 0.164 | 1.00 | J |
| Copper | 1.38 | 0.0300 | 0.00898 | 1.00 | |
| Lead | 0.0440 | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 5.33 | 0.500 | 0.0736 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IB-RW-13-G-S-20140928 | 14-09-2270-7-F | 09/28/14 13:07 | Sea Water | ICP/MS 05 | 10/09/14 | 10/12/14 16:30 | 141009L01F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0477 | 0.0300 | 0.00567 | 1.00 | |
| Chromium | 0.249 | 0.500 | 0.164 | 1.00 | J |
| Copper | 0.766 | 0.0300 | 0.00898 | 1.00 | |
| Lead | 0.290 | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 2.68 | 0.500 | 0.0736 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 09/29/14
Work Order: 14-09-2270
Preparation: EPA 3005A Filt.
Method: EPA 1640
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

Page 2 of 2

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IB-RW-14-G-S-20140928 | 14-09-2270-10-F | 09/28/14 13:40 | Sea Water | ICP/MS 05 | 10/09/14 | 10/12/14 16:38 | 141009L01F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0366 | 0.0300 | 0.00567 | 1.00 | |
| Chromium | 0.274 | 0.500 | 0.164 | 1.00 | J |
| Copper | 0.964 | 0.0300 | 0.00898 | 1.00 | |
| Lead | 0.165 | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 1.57 | 0.500 | 0.0736 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IB-RW-15-G-S-20140928 | 14-09-2270-13-F | 09/28/14 14:17 | Sea Water | ICP/MS 05 | 10/09/14 | 10/11/14 22:48 | 141009L01F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0432 | 0.0300 | 0.00567 | 1.00 | |
| Chromium | 0.349 | 0.500 | 0.164 | 1.00 | J |
| Copper | 1.28 | 0.0300 | 0.00898 | 1.00 | |
| Lead | 0.415 | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 3.06 | 0.500 | 0.0736 | 1.00 | |

| Method Blank | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|--------------|-------------------|---------------------|---------|------------|---------------|--------------------|-------------|
| Method Blank | 099-15-823-108 | N/A | Aqueous | ICP/MS 05 | 10/09/14 | 10/11/14 13:41 | 141009L01F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | ND | 0.0300 | 0.00567 | 1.00 | |
| Chromium | ND | 0.500 | 0.164 | 1.00 | |
| Copper | ND | 0.0300 | 0.00898 | 1.00 | |
| Lead | ND | 0.0300 | 0.0135 | 1.00 | |
| Zinc | ND | 0.500 | 0.0736 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 09/29/14
Work Order: 14-09-2270
Preparation: EPA 3510C
Method: EPA 8081A
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

Page 1 of 6

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OB-RW-16-G-S-20140928 | 14-09-2270-1-D | 09/28/14 11:25 | Sea Water | GC 44 | 10/01/14 | 10/04/14 12:14 | 141001L11 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------------------------|----------|----------------|------------|------|------------|
| 2,4'-DDD | ND | 0.0020 | 0.00059 | 1.01 | |
| 2,4'-DDE | 0.0016 | 0.0020 | 0.00049 | 1.01 | J |
| 2,4'-DDT | ND | 0.0020 | 0.00069 | 1.01 | |
| 4,4'-DDD | ND | 0.0020 | 0.00055 | 1.01 | |
| 4,4'-DDE | ND | 0.0020 | 0.00048 | 1.01 | |
| 4,4'-DDT | ND | 0.0020 | 0.00056 | 1.01 | |
| Alpha Chlordane | ND | 0.0020 | 0.00050 | 1.01 | |
| Cis-nonachlor | ND | 0.0020 | 0.00051 | 1.01 | |
| Dieldrin | ND | 0.0020 | 0.00055 | 1.01 | |
| Gamma Chlordane | ND | 0.0020 | 0.00049 | 1.01 | |
| Oxychlordane | ND | 0.0020 | 0.00063 | 1.01 | |
| Toxaphene | ND | 0.025 | 0.0083 | 1.01 | |
| Trans-nonachlor | 0.00061 | 0.0020 | 0.00056 | 1.01 | J |
| Surrogate | Rec. (%) | Control Limits | Qualifiers | | |
| Decachlorobiphenyl | 89 | 50-150 | | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 90 | 50-150 | | | |

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 09/29/14
Work Order: 14-09-2270
Preparation: EPA 3510C
Method: EPA 8081A
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

Page 2 of 6

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IB-RW-12-G-S-20140928 | 14-09-2270-4-D | 09/28/14 12:20 | Sea Water | GC 44 | 10/01/14 | 10/04/14 12:28 | 141001L11 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------------------------|----------|----------------|------------|-------|------------|
| 2,4'-DDD | ND | 0.0020 | 0.00057 | 0.980 | |
| 2,4'-DDE | 0.0035 | 0.0020 | 0.00048 | 0.980 | |
| 2,4'-DDT | ND | 0.0020 | 0.00067 | 0.980 | |
| 4,4'-DDD | ND | 0.0020 | 0.00054 | 0.980 | |
| 4,4'-DDE | ND | 0.0020 | 0.00047 | 0.980 | |
| 4,4'-DDT | ND | 0.0020 | 0.00054 | 0.980 | |
| Alpha Chlordane | ND | 0.0020 | 0.00048 | 0.980 | |
| Cis-nonachlor | ND | 0.0020 | 0.00049 | 0.980 | |
| Dieldrin | ND | 0.0020 | 0.00054 | 0.980 | |
| Gamma Chlordane | ND | 0.0020 | 0.00048 | 0.980 | |
| Oxychlordane | ND | 0.0020 | 0.00061 | 0.980 | |
| Toxaphene | ND | 0.024 | 0.0081 | 0.980 | |
| Trans-nonachlor | ND | 0.0020 | 0.00055 | 0.980 | |
| Surrogate | Rec. (%) | Control Limits | Qualifiers | | |
| Decachlorobiphenyl | 89 | 50-150 | | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 91 | 50-150 | | | |

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 09/29/14
Work Order: 14-09-2270
Preparation: EPA 3510C
Method: EPA 8081A
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

Page 3 of 6

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IB-RW-13-G-S-20140928 | 14-09-2270-7-D | 09/28/14 13:07 | Sea Water | GC 44 | 10/01/14 | 10/04/14 12:43 | 141001L11 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------------------------|----------|----------------|------------|------|------------|
| 2,4'-DDD | ND | 0.0020 | 0.00058 | 1.00 | |
| 2,4'-DDE | 0.0022 | 0.0020 | 0.00049 | 1.00 | |
| 2,4'-DDT | ND | 0.0020 | 0.00069 | 1.00 | |
| 4,4'-DDD | ND | 0.0020 | 0.00055 | 1.00 | |
| 4,4'-DDE | ND | 0.0020 | 0.00048 | 1.00 | |
| 4,4'-DDT | ND | 0.0020 | 0.00055 | 1.00 | |
| Alpha Chlordane | ND | 0.0020 | 0.00049 | 1.00 | |
| Cis-nonachlor | ND | 0.0020 | 0.00050 | 1.00 | |
| Dieldrin | ND | 0.0020 | 0.00055 | 1.00 | |
| Gamma Chlordane | ND | 0.0020 | 0.00049 | 1.00 | |
| Oxychlordane | ND | 0.0020 | 0.00063 | 1.00 | |
| Toxaphene | ND | 0.025 | 0.0082 | 1.00 | |
| Trans-nonachlor | 0.00068 | 0.0020 | 0.00056 | 1.00 | J |
| Surrogate | Rec. (%) | Control Limits | Qualifiers | | |
| Decachlorobiphenyl | 92 | 50-150 | | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 105 | 50-150 | | | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 09/29/14
Work Order: 14-09-2270
Preparation: EPA 3510C
Method: EPA 8081A
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

Page 4 of 6

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IB-RW-14-G-S-20140928 | 14-09-2270-10-D | 09/28/14 13:40 | Sea Water | GC 44 | 10/01/14 | 10/04/14 12:57 | 141001L11 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------------------------|-----------------|-----------------------|-------------------|------|------------|
| 2,4'-DDD | ND | 0.0020 | 0.00058 | 1.00 | |
| 2,4'-DDE | 0.0028 | 0.0020 | 0.00049 | 1.00 | |
| 2,4'-DDT | ND | 0.0020 | 0.00069 | 1.00 | |
| 4,4'-DDD | ND | 0.0020 | 0.00055 | 1.00 | |
| 4,4'-DDE | ND | 0.0020 | 0.00048 | 1.00 | |
| 4,4'-DDT | ND | 0.0020 | 0.00055 | 1.00 | |
| Alpha Chlordane | ND | 0.0020 | 0.00049 | 1.00 | |
| Cis-nonachlor | ND | 0.0020 | 0.00050 | 1.00 | |
| Dieldrin | ND | 0.0020 | 0.00055 | 1.00 | |
| Gamma Chlordane | ND | 0.0020 | 0.00049 | 1.00 | |
| Oxychlordane | ND | 0.0020 | 0.00063 | 1.00 | |
| Toxaphene | ND | 0.025 | 0.0082 | 1.00 | |
| Trans-nonachlor | ND | 0.0020 | 0.00056 | 1.00 | |
| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> | | |
| Decachlorobiphenyl | 89 | 50-150 | | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 103 | 50-150 | | | |

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 09/29/14
Work Order: 14-09-2270
Preparation: EPA 3510C
Method: EPA 8081A
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

Page 5 of 6

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IB-RW-15-G-S-20140928 | 14-09-2270-13-D | 09/28/14 14:17 | Sea Water | GC 44 | 10/01/14 | 10/04/14 13:12 | 141001L11 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------------------------|----------|----------------|------------|------|------------|
| 2,4'-DDD | ND | 0.0020 | 0.00058 | 1.00 | |
| 2,4'-DDE | 0.0024 | 0.0020 | 0.00049 | 1.00 | |
| 2,4'-DDT | ND | 0.0020 | 0.00069 | 1.00 | |
| 4,4'-DDD | ND | 0.0020 | 0.00055 | 1.00 | |
| 4,4'-DDE | ND | 0.0020 | 0.00048 | 1.00 | |
| 4,4'-DDT | ND | 0.0020 | 0.00055 | 1.00 | |
| Alpha Chlordane | ND | 0.0020 | 0.00049 | 1.00 | |
| Cis-nonachlor | ND | 0.0020 | 0.00050 | 1.00 | |
| Dieldrin | ND | 0.0020 | 0.00055 | 1.00 | |
| Gamma Chlordane | ND | 0.0020 | 0.00049 | 1.00 | |
| Oxychlordane | ND | 0.0020 | 0.00063 | 1.00 | |
| Toxaphene | ND | 0.025 | 0.0082 | 1.00 | |
| Trans-nonachlor | ND | 0.0020 | 0.00056 | 1.00 | |
| Surrogate | Rec. (%) | Control Limits | Qualifiers | | |
| Decachlorobiphenyl | 76 | 50-150 | | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 76 | 50-150 | | | |

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

| | | |
|------------------------------|----------------|------------|
| ANCHOR QEA, LLC | Date Received: | 09/29/14 |
| 27201 Puerta Real, Suite 350 | Work Order: | 14-09-2270 |
| Mission Viejo, CA 92691-8306 | Preparation: | EPA 3510C |
| | Method: | EPA 8081A |
| | Units: | ug/L |

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|---------|------------|---------------|--------------------|-------------|
| Method Blank | 099-16-036-9 | N/A | Aqueous | GC 44 | 10/01/14 | 10/04/14 10:04 | 141001L11 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------------------------|----------|----------------|------------|------|------------|
| 2,4'-DDD | ND | 0.0020 | 0.00058 | 1.00 | |
| 2,4'-DDE | ND | 0.0020 | 0.00049 | 1.00 | |
| 2,4'-DDT | ND | 0.0020 | 0.00069 | 1.00 | |
| 4,4'-DDD | ND | 0.0020 | 0.00055 | 1.00 | |
| 4,4'-DDE | ND | 0.0020 | 0.00048 | 1.00 | |
| 4,4'-DDT | ND | 0.0020 | 0.00055 | 1.00 | |
| Alpha Chlordane | ND | 0.0020 | 0.00049 | 1.00 | |
| Cis-nonachlor | ND | 0.0020 | 0.00050 | 1.00 | |
| Dieldrin | ND | 0.0020 | 0.00055 | 1.00 | |
| Gamma Chlordane | ND | 0.0020 | 0.00049 | 1.00 | |
| Oxychlordane | ND | 0.0020 | 0.00063 | 1.00 | |
| Toxaphene | ND | 0.025 | 0.0082 | 1.00 | |
| Trans-nonachlor | ND | 0.0020 | 0.00056 | 1.00 | |
| Surrogate | Rec. (%) | Control Limits | Qualifiers | | |
| Decachlorobiphenyl | 86 | 50-150 | | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 85 | 50-150 | | | |



 Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 09/29/14
Work Order: 14-09-2270
Preparation: EPA 3510C
Method: EPA 8270C SIM PCB Congeners
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

Page 1 of 12

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OB-RW-16-G-S-20140928 | 14-09-2270-1-B | 09/28/14 11:25 | Sea Water | GC/MS HHH | 09/30/14 | 10/03/14 17:15 | 140930L13A |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------|--------|--------|---------|------|------------|
| PCB018 | ND | 0.0020 | 0.00042 | 1.00 | |
| PCB028 | ND | 0.0020 | 0.00066 | 1.00 | |
| PCB037 | ND | 0.0020 | 0.00048 | 1.00 | |
| PCB044 | ND | 0.0020 | 0.00078 | 1.00 | |
| PCB049 | ND | 0.0020 | 0.00078 | 1.00 | |
| PCB052 | ND | 0.0020 | 0.00051 | 1.00 | |
| PCB066 | ND | 0.0020 | 0.00057 | 1.00 | |
| PCB070 | ND | 0.0020 | 0.00038 | 1.00 | |
| PCB074 | ND | 0.0020 | 0.00043 | 1.00 | |
| PCB077 | ND | 0.0020 | 0.00065 | 1.00 | |
| PCB081 | ND | 0.0020 | 0.00048 | 1.00 | |
| PCB087 | ND | 0.0020 | 0.00050 | 1.00 | |
| PCB099 | ND | 0.0020 | 0.00060 | 1.00 | |
| PCB101 | ND | 0.0020 | 0.00058 | 1.00 | |
| PCB105 | ND | 0.0020 | 0.00038 | 1.00 | |
| PCB110 | ND | 0.0020 | 0.00050 | 1.00 | |
| PCB114 | ND | 0.0020 | 0.00044 | 1.00 | |
| PCB118 | ND | 0.0020 | 0.00049 | 1.00 | |
| PCB119 | ND | 0.0020 | 0.00043 | 1.00 | |
| PCB123 | ND | 0.0020 | 0.00077 | 1.00 | |
| PCB126 | ND | 0.0020 | 0.00055 | 1.00 | |
| PCB128 | ND | 0.0020 | 0.00070 | 1.00 | |
| PCB132/153 | ND | 0.0040 | 0.0012 | 1.00 | |
| PCB138/158 | ND | 0.0040 | 0.0011 | 1.00 | |
| PCB149 | ND | 0.0020 | 0.00050 | 1.00 | |
| PCB151 | ND | 0.0020 | 0.00061 | 1.00 | |
| PCB156 | ND | 0.0020 | 0.00051 | 1.00 | |
| PCB157 | ND | 0.0020 | 0.00075 | 1.00 | |
| PCB167 | ND | 0.0020 | 0.00087 | 1.00 | |
| PCB168 | ND | 0.0020 | 0.00033 | 1.00 | |
| PCB169 | ND | 0.0020 | 0.00056 | 1.00 | |
| PCB170 | ND | 0.0020 | 0.00056 | 1.00 | |
| PCB177 | ND | 0.0020 | 0.00057 | 1.00 | |
| PCB180 | ND | 0.0020 | 0.00072 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 09/29/14
 Work Order: 14-09-2270
 Preparation: EPA 3510C
 Method: EPA 8270C SIM PCB Congeners
 Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|-----------------|-----------------------|-------------------|-----------|-------------------|
| PCB183 | ND | 0.0020 | 0.00053 | 1.00 | |
| PCB187 | ND | 0.0020 | 0.00056 | 1.00 | |
| PCB189 | ND | 0.0020 | 0.00040 | 1.00 | |
| PCB194 | ND | 0.0020 | 0.00042 | 1.00 | |
| PCB195 | ND | 0.0020 | 0.00035 | 1.00 | |
| PCB201 | ND | 0.0020 | 0.00072 | 1.00 | |
| PCB206 | ND | 0.0020 | 0.00026 | 1.00 | |
| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> | | |
| 2-Fluorobiphenyl | 99 | 50-150 | | | |
| p-Terphenyl-d14 | 113 | 50-150 | | | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 09/29/14
Work Order: 14-09-2270
Preparation: EPA 3510C
Method: EPA 8270C SIM PCB Congeners
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

Page 3 of 12

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IB-RW-12-G-S-20140928 | 14-09-2270-4-B | 09/28/14 12:20 | Sea Water | GC/MS HHH | 09/30/14 | 10/03/14 17:42 | 140930L13A |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------|--------|--------|---------|------|------------|
| PCB018 | ND | 0.0020 | 0.00041 | 1.00 | |
| PCB028 | ND | 0.0020 | 0.00065 | 1.00 | |
| PCB037 | ND | 0.0020 | 0.00047 | 1.00 | |
| PCB044 | ND | 0.0020 | 0.00077 | 1.00 | |
| PCB049 | ND | 0.0020 | 0.00077 | 1.00 | |
| PCB052 | ND | 0.0020 | 0.00051 | 1.00 | |
| PCB066 | ND | 0.0020 | 0.00057 | 1.00 | |
| PCB070 | ND | 0.0020 | 0.00038 | 1.00 | |
| PCB074 | ND | 0.0020 | 0.00042 | 1.00 | |
| PCB077 | ND | 0.0020 | 0.00065 | 1.00 | |
| PCB081 | ND | 0.0020 | 0.00048 | 1.00 | |
| PCB087 | ND | 0.0020 | 0.00049 | 1.00 | |
| PCB099 | ND | 0.0020 | 0.00060 | 1.00 | |
| PCB101 | ND | 0.0020 | 0.00057 | 1.00 | |
| PCB105 | ND | 0.0020 | 0.00037 | 1.00 | |
| PCB110 | ND | 0.0020 | 0.00050 | 1.00 | |
| PCB114 | ND | 0.0020 | 0.00044 | 1.00 | |
| PCB118 | ND | 0.0020 | 0.00049 | 1.00 | |
| PCB119 | ND | 0.0020 | 0.00043 | 1.00 | |
| PCB123 | ND | 0.0020 | 0.00076 | 1.00 | |
| PCB126 | ND | 0.0020 | 0.00054 | 1.00 | |
| PCB128 | ND | 0.0020 | 0.00070 | 1.00 | |
| PCB132/153 | ND | 0.0040 | 0.0012 | 1.00 | |
| PCB138/158 | ND | 0.0040 | 0.0011 | 1.00 | |
| PCB149 | ND | 0.0020 | 0.00050 | 1.00 | |
| PCB151 | ND | 0.0020 | 0.00061 | 1.00 | |
| PCB156 | ND | 0.0020 | 0.00051 | 1.00 | |
| PCB157 | ND | 0.0020 | 0.00074 | 1.00 | |
| PCB167 | ND | 0.0020 | 0.00086 | 1.00 | |
| PCB168 | ND | 0.0020 | 0.00032 | 1.00 | |
| PCB169 | ND | 0.0020 | 0.00056 | 1.00 | |
| PCB170 | ND | 0.0020 | 0.00056 | 1.00 | |
| PCB177 | ND | 0.0020 | 0.00057 | 1.00 | |
| PCB180 | ND | 0.0020 | 0.00071 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 09/29/14
 Work Order: 14-09-2270
 Preparation: EPA 3510C
 Method: EPA 8270C SIM PCB Congeners
 Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|-----------------|-----------------------|-------------------|-----------|-------------------|
| PCB183 | ND | 0.0020 | 0.00053 | 1.00 | |
| PCB187 | ND | 0.0020 | 0.00055 | 1.00 | |
| PCB189 | ND | 0.0020 | 0.00040 | 1.00 | |
| PCB194 | ND | 0.0020 | 0.00042 | 1.00 | |
| PCB195 | ND | 0.0020 | 0.00035 | 1.00 | |
| PCB201 | ND | 0.0020 | 0.00072 | 1.00 | |
| PCB206 | ND | 0.0020 | 0.00025 | 1.00 | |
| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> | | |
| 2-Fluorobiphenyl | 94 | 50-150 | | | |
| p-Terphenyl-d14 | 106 | 50-150 | | | |



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 09/29/14
Work Order: 14-09-2270
Preparation: EPA 3510C
Method: EPA 8270C SIM PCB Congeners
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

Page 5 of 12

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IB-RW-13-G-S-20140928 | 14-09-2270-7-B | 09/28/14 13:07 | Sea Water | GC/MS HHH | 09/30/14 | 10/03/14 18:11 | 140930L13A |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------|--------|--------|---------|------|------------|
| PCB018 | ND | 0.0020 | 0.00041 | 1.00 | |
| PCB028 | ND | 0.0020 | 0.00065 | 1.00 | |
| PCB037 | ND | 0.0020 | 0.00047 | 1.00 | |
| PCB044 | ND | 0.0020 | 0.00077 | 1.00 | |
| PCB049 | ND | 0.0020 | 0.00077 | 1.00 | |
| PCB052 | ND | 0.0020 | 0.00051 | 1.00 | |
| PCB066 | ND | 0.0020 | 0.00057 | 1.00 | |
| PCB070 | ND | 0.0020 | 0.00038 | 1.00 | |
| PCB074 | ND | 0.0020 | 0.00042 | 1.00 | |
| PCB077 | ND | 0.0020 | 0.00065 | 1.00 | |
| PCB081 | ND | 0.0020 | 0.00048 | 1.00 | |
| PCB087 | ND | 0.0020 | 0.00049 | 1.00 | |
| PCB099 | ND | 0.0020 | 0.00060 | 1.00 | |
| PCB101 | ND | 0.0020 | 0.00057 | 1.00 | |
| PCB105 | ND | 0.0020 | 0.00037 | 1.00 | |
| PCB110 | ND | 0.0020 | 0.00050 | 1.00 | |
| PCB114 | ND | 0.0020 | 0.00044 | 1.00 | |
| PCB118 | ND | 0.0020 | 0.00049 | 1.00 | |
| PCB119 | ND | 0.0020 | 0.00043 | 1.00 | |
| PCB123 | ND | 0.0020 | 0.00076 | 1.00 | |
| PCB126 | ND | 0.0020 | 0.00054 | 1.00 | |
| PCB128 | ND | 0.0020 | 0.00070 | 1.00 | |
| PCB132/153 | ND | 0.0040 | 0.0012 | 1.00 | |
| PCB138/158 | ND | 0.0040 | 0.0011 | 1.00 | |
| PCB149 | ND | 0.0020 | 0.00050 | 1.00 | |
| PCB151 | ND | 0.0020 | 0.00061 | 1.00 | |
| PCB156 | ND | 0.0020 | 0.00051 | 1.00 | |
| PCB157 | ND | 0.0020 | 0.00074 | 1.00 | |
| PCB167 | ND | 0.0020 | 0.00086 | 1.00 | |
| PCB168 | ND | 0.0020 | 0.00032 | 1.00 | |
| PCB169 | ND | 0.0020 | 0.00056 | 1.00 | |
| PCB170 | ND | 0.0020 | 0.00056 | 1.00 | |
| PCB177 | ND | 0.0020 | 0.00057 | 1.00 | |
| PCB180 | ND | 0.0020 | 0.00071 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 09/29/14
 Work Order: 14-09-2270
 Preparation: EPA 3510C
 Method: EPA 8270C SIM PCB Congeners
 Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|-----------------|-----------------------|-------------------|-----------|-------------------|
| PCB183 | ND | 0.0020 | 0.00053 | 1.00 | |
| PCB187 | ND | 0.0020 | 0.00055 | 1.00 | |
| PCB189 | ND | 0.0020 | 0.00040 | 1.00 | |
| PCB194 | ND | 0.0020 | 0.00042 | 1.00 | |
| PCB195 | ND | 0.0020 | 0.00035 | 1.00 | |
| PCB201 | ND | 0.0020 | 0.00072 | 1.00 | |
| PCB206 | ND | 0.0020 | 0.00025 | 1.00 | |
| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> | | |
| 2-Fluorobiphenyl | 106 | 50-150 | | | |
| p-Terphenyl-d14 | 117 | 50-150 | | | |

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 09/29/14
Work Order: 14-09-2270
Preparation: EPA 3510C
Method: EPA 8270C SIM PCB Congeners
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IB-RW-14-G-S-20140928 | 14-09-2270-10-B | 09/28/14 13:40 | Sea Water | GC/MS HHH | 09/30/14 | 10/03/14 18:38 | 140930L13A |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------|--------|--------|---------|------|------------|
| PCB018 | ND | 0.0019 | 0.00040 | 1.00 | |
| PCB028 | ND | 0.0019 | 0.00064 | 1.00 | |
| PCB037 | ND | 0.0019 | 0.00046 | 1.00 | |
| PCB044 | ND | 0.0019 | 0.00075 | 1.00 | |
| PCB049 | ND | 0.0019 | 0.00075 | 1.00 | |
| PCB052 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB066 | ND | 0.0019 | 0.00055 | 1.00 | |
| PCB070 | ND | 0.0019 | 0.00037 | 1.00 | |
| PCB074 | ND | 0.0019 | 0.00041 | 1.00 | |
| PCB077 | ND | 0.0019 | 0.00063 | 1.00 | |
| PCB081 | ND | 0.0019 | 0.00047 | 1.00 | |
| PCB087 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB099 | ND | 0.0019 | 0.00058 | 1.00 | |
| PCB101 | ND | 0.0019 | 0.00056 | 1.00 | |
| PCB105 | ND | 0.0019 | 0.00036 | 1.00 | |
| PCB110 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB114 | ND | 0.0019 | 0.00042 | 1.00 | |
| PCB118 | ND | 0.0019 | 0.00047 | 1.00 | |
| PCB119 | ND | 0.0019 | 0.00041 | 1.00 | |
| PCB123 | ND | 0.0019 | 0.00074 | 1.00 | |
| PCB126 | ND | 0.0019 | 0.00052 | 1.00 | |
| PCB128 | ND | 0.0019 | 0.00068 | 1.00 | |
| PCB132/153 | ND | 0.0038 | 0.0011 | 1.00 | |
| PCB138/158 | ND | 0.0038 | 0.0011 | 1.00 | |
| PCB149 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB151 | ND | 0.0019 | 0.00059 | 1.00 | |
| PCB156 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB157 | ND | 0.0019 | 0.00072 | 1.00 | |
| PCB167 | ND | 0.0019 | 0.00083 | 1.00 | |
| PCB168 | ND | 0.0019 | 0.00032 | 1.00 | |
| PCB169 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB170 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB177 | ND | 0.0019 | 0.00055 | 1.00 | |
| PCB180 | ND | 0.0019 | 0.00069 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 09/29/14
Work Order: 14-09-2270
Preparation: EPA 3510C
Method: EPA 8270C SIM PCB Congeners
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|-----------------|-----------------------|-------------------|-----------|-------------------|
| PCB183 | ND | 0.0019 | 0.00051 | 1.00 | |
| PCB187 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB189 | ND | 0.0019 | 0.00038 | 1.00 | |
| PCB194 | ND | 0.0019 | 0.00040 | 1.00 | |
| PCB195 | ND | 0.0019 | 0.00034 | 1.00 | |
| PCB201 | ND | 0.0019 | 0.00070 | 1.00 | |
| PCB206 | ND | 0.0019 | 0.00025 | 1.00 | |
| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> | | |
| 2-Fluorobiphenyl | 90 | 50-150 | | | |
| p-Terphenyl-d14 | 103 | 50-150 | | | |

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 09/29/14
Work Order: 14-09-2270
Preparation: EPA 3510C
Method: EPA 8270C SIM PCB Congeners
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IB-RW-15-G-S-20140928 | 14-09-2270-13-B | 09/28/14 14:17 | Sea Water | GC/MS HHH | 09/30/14 | 10/03/14 19:05 | 140930L13A |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------|--------|--------|---------|------|------------|
| PCB018 | ND | 0.0020 | 0.00042 | 1.00 | |
| PCB028 | ND | 0.0020 | 0.00066 | 1.00 | |
| PCB037 | ND | 0.0020 | 0.00048 | 1.00 | |
| PCB044 | ND | 0.0020 | 0.00078 | 1.00 | |
| PCB049 | ND | 0.0020 | 0.00078 | 1.00 | |
| PCB052 | ND | 0.0020 | 0.00051 | 1.00 | |
| PCB066 | ND | 0.0020 | 0.00057 | 1.00 | |
| PCB070 | ND | 0.0020 | 0.00038 | 1.00 | |
| PCB074 | ND | 0.0020 | 0.00043 | 1.00 | |
| PCB077 | ND | 0.0020 | 0.00065 | 1.00 | |
| PCB081 | ND | 0.0020 | 0.00048 | 1.00 | |
| PCB087 | ND | 0.0020 | 0.00050 | 1.00 | |
| PCB099 | ND | 0.0020 | 0.00060 | 1.00 | |
| PCB101 | ND | 0.0020 | 0.00058 | 1.00 | |
| PCB105 | ND | 0.0020 | 0.00038 | 1.00 | |
| PCB110 | ND | 0.0020 | 0.00050 | 1.00 | |
| PCB114 | ND | 0.0020 | 0.00044 | 1.00 | |
| PCB118 | ND | 0.0020 | 0.00049 | 1.00 | |
| PCB119 | ND | 0.0020 | 0.00043 | 1.00 | |
| PCB123 | ND | 0.0020 | 0.00077 | 1.00 | |
| PCB126 | ND | 0.0020 | 0.00055 | 1.00 | |
| PCB128 | ND | 0.0020 | 0.00070 | 1.00 | |
| PCB132/153 | ND | 0.0040 | 0.0012 | 1.00 | |
| PCB138/158 | ND | 0.0040 | 0.0011 | 1.00 | |
| PCB149 | ND | 0.0020 | 0.00050 | 1.00 | |
| PCB151 | ND | 0.0020 | 0.00061 | 1.00 | |
| PCB156 | ND | 0.0020 | 0.00051 | 1.00 | |
| PCB157 | ND | 0.0020 | 0.00075 | 1.00 | |
| PCB167 | ND | 0.0020 | 0.00087 | 1.00 | |
| PCB168 | ND | 0.0020 | 0.00033 | 1.00 | |
| PCB169 | ND | 0.0020 | 0.00056 | 1.00 | |
| PCB170 | ND | 0.0020 | 0.00056 | 1.00 | |
| PCB177 | ND | 0.0020 | 0.00057 | 1.00 | |
| PCB180 | ND | 0.0020 | 0.00072 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 09/29/14
 Work Order: 14-09-2270
 Preparation: EPA 3510C
 Method: EPA 8270C SIM PCB Congeners
 Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|-----------------|-----------------------|-------------------|-----------|-------------------|
| PCB183 | ND | 0.0020 | 0.00053 | 1.00 | |
| PCB187 | ND | 0.0020 | 0.00056 | 1.00 | |
| PCB189 | ND | 0.0020 | 0.00040 | 1.00 | |
| PCB194 | ND | 0.0020 | 0.00042 | 1.00 | |
| PCB195 | ND | 0.0020 | 0.00035 | 1.00 | |
| PCB201 | ND | 0.0020 | 0.00072 | 1.00 | |
| PCB206 | ND | 0.0020 | 0.00026 | 1.00 | |
| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> | | |
| 2-Fluorobiphenyl | 95 | 50-150 | | | |
| p-Terphenyl-d14 | 104 | 50-150 | | | |



Calscience

Analytical Report

| | | |
|------------------------------|----------------|-----------------------------|
| ANCHOR QEA, LLC | Date Received: | 09/29/14 |
| 27201 Puerta Real, Suite 350 | Work Order: | 14-09-2270 |
| Mission Viejo, CA 92691-8306 | Preparation: | EPA 3510C |
| | Method: | EPA 8270C SIM PCB Congeners |
| | Units: | ug/L |

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|---------|------------|---------------|--------------------|-------------|
| Method Blank | 099-16-414-8 | N/A | Aqueous | GC/MS HHH | 09/30/14 | 10/03/14 13:39 | 140930L13A |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------|--------|--------|---------|------|------------|
| PCB018 | ND | 0.0020 | 0.00042 | 1.00 | |
| PCB028 | ND | 0.0020 | 0.00066 | 1.00 | |
| PCB037 | ND | 0.0020 | 0.00048 | 1.00 | |
| PCB044 | ND | 0.0020 | 0.00078 | 1.00 | |
| PCB049 | ND | 0.0020 | 0.00078 | 1.00 | |
| PCB052 | ND | 0.0020 | 0.00051 | 1.00 | |
| PCB066 | ND | 0.0020 | 0.00057 | 1.00 | |
| PCB070 | ND | 0.0020 | 0.00038 | 1.00 | |
| PCB074 | ND | 0.0020 | 0.00043 | 1.00 | |
| PCB077 | ND | 0.0020 | 0.00065 | 1.00 | |
| PCB081 | ND | 0.0020 | 0.00048 | 1.00 | |
| PCB087 | ND | 0.0020 | 0.00050 | 1.00 | |
| PCB099 | ND | 0.0020 | 0.00060 | 1.00 | |
| PCB101 | ND | 0.0020 | 0.00058 | 1.00 | |
| PCB105 | ND | 0.0020 | 0.00038 | 1.00 | |
| PCB110 | ND | 0.0020 | 0.00050 | 1.00 | |
| PCB114 | ND | 0.0020 | 0.00044 | 1.00 | |
| PCB118 | ND | 0.0020 | 0.00049 | 1.00 | |
| PCB119 | ND | 0.0020 | 0.00043 | 1.00 | |
| PCB123 | ND | 0.0020 | 0.00077 | 1.00 | |
| PCB126 | ND | 0.0020 | 0.00055 | 1.00 | |
| PCB128 | ND | 0.0020 | 0.00070 | 1.00 | |
| PCB132/153 | ND | 0.0040 | 0.0012 | 1.00 | |
| PCB138/158 | ND | 0.0040 | 0.0011 | 1.00 | |
| PCB149 | ND | 0.0020 | 0.00050 | 1.00 | |
| PCB151 | ND | 0.0020 | 0.00061 | 1.00 | |
| PCB156 | ND | 0.0020 | 0.00051 | 1.00 | |
| PCB157 | ND | 0.0020 | 0.00075 | 1.00 | |
| PCB167 | ND | 0.0020 | 0.00087 | 1.00 | |
| PCB168 | ND | 0.0020 | 0.00033 | 1.00 | |
| PCB169 | ND | 0.0020 | 0.00056 | 1.00 | |
| PCB170 | ND | 0.0020 | 0.00056 | 1.00 | |
| PCB177 | ND | 0.0020 | 0.00057 | 1.00 | |
| PCB180 | ND | 0.0020 | 0.00072 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 09/29/14
 Work Order: 14-09-2270
 Preparation: EPA 3510C
 Method: EPA 8270C SIM PCB Congeners
 Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|-----------------|-----------------------|-------------------|-----------|-------------------|
| PCB183 | ND | 0.0020 | 0.00053 | 1.00 | |
| PCB187 | ND | 0.0020 | 0.00056 | 1.00 | |
| PCB189 | ND | 0.0020 | 0.00040 | 1.00 | |
| PCB194 | ND | 0.0020 | 0.00042 | 1.00 | |
| PCB195 | ND | 0.0020 | 0.00035 | 1.00 | |
| PCB201 | ND | 0.0020 | 0.00072 | 1.00 | |
| PCB206 | ND | 0.0020 | 0.00026 | 1.00 | |
| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> | | |
| 2-Fluorobiphenyl | 82 | 50-150 | | | |
| p-Terphenyl-d14 | 99 | 50-150 | | | |



Calscience

Quality Control - Spike/Spike Duplicate

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 09/29/14
 Work Order: 14-09-2270
 Preparation: Filtered
 Method: EPA 1631E

Project: GWMA - TMDL Compliance Monitoring

Page 1 of 2

| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | MS/MSD Batch Number |
|---------------------------|------------------------|-----------|------------|---------------|----------------|---------------------|
| OB-RW-16-G-S-20140928 | Sample | Sea Water | Hg/AF 1 | 10/02/14 | 10/02/14 00:00 | 141002S01 |
| OB-RW-16-G-S-20140928 | Matrix Spike | Sea Water | Hg/AF 1 | 10/02/14 | 10/02/14 00:00 | 141002S01 |
| OB-RW-16-G-S-20140928 | Matrix Spike Duplicate | Sea Water | Hg/AF 1 | 10/02/14 | 10/02/14 00:00 | 141002S01 |

| Parameter | Sample Conc. | Spike Added | MS Conc. | MS %Rec. | MSD Conc. | MSD %Rec. | %Rec. CL | RPD | RPD CL | Qualifiers |
|-----------|--------------|-------------|----------|----------|-----------|-----------|----------|-----|--------|------------|
| Mercury | ND | 0.02000 | 0.01998 | 100 | 0.02010 | 101 | 71-125 | 1 | 0-24 | |

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RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - Spike/Spike Duplicate

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 09/29/14
Work Order: 14-09-2270
Preparation: EPA 3005A Total
Method: EPA 1640

Project: GWMA - TMDL Compliance Monitoring

Page 2 of 2

| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | MS/MSD Batch Number |
|---------------------------|------------------------|-----------|------------|---------------|----------------|---------------------|
| 14-10-0371-1 | Sample | Sea Water | ICP/MS 05 | 10/09/14 | 10/12/14 16:46 | 141009S01 |
| 14-10-0371-1 | Matrix Spike | Sea Water | ICP/MS 05 | 10/09/14 | 10/12/14 16:54 | 141009S01 |
| 14-10-0371-1 | Matrix Spike Duplicate | Sea Water | ICP/MS 05 | 10/09/14 | 10/12/14 17:02 | 141009S01 |

| Parameter | Sample Conc. | Spike Added | MS Conc. | MS %Rec. | MSD Conc. | MSD %Rec. | %Rec. CL | RPD | RPD CL | Qualifiers |
|-----------|--------------|-------------|----------|----------|-----------|-----------|----------|-----|--------|------------|
| Cadmium | 0.1110 | 0.5000 | 0.6582 | 109 | 0.6509 | 108 | 50-150 | 1 | 0-20 | |
| Chromium | 1.214 | 5.000 | 7.337 | 122 | 7.497 | 126 | 50-150 | 2 | 0-20 | |
| Copper | 1.059 | 0.5000 | 1.697 | 128 | 1.725 | 133 | 50-150 | 2 | 0-20 | |
| Lead | 0.7653 | 0.5000 | 1.295 | 106 | 1.247 | 96 | 50-150 | 4 | 0-20 | |
| Zinc | 2.934 | 5.000 | 9.390 | 129 | 9.357 | 128 | 50-150 | 0 | 0-20 | |


 Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - Sample Duplicate

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 09/29/14
 Work Order: 14-09-2270
 Preparation: N/A
 Method: SM 2540 D

Project: GWMA - TMDL Compliance Monitoring

Page 1 of 1

| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | Duplicate Batch Number |
|---------------------------|------------------|---------|------------|----------------|----------------|------------------------|
| 14-10-0178-1 | Sample | Aqueous | N/A | 10/03/14 00:00 | 10/03/14 13:20 | E1003TSSD1 |
| 14-10-0178-1 | Sample Duplicate | Aqueous | N/A | 10/03/14 00:00 | 10/03/14 13:20 | E1003TSSD1 |

| Parameter | Sample Conc. | DUP Conc. | RPD | RPD CL | Qualifiers |
|-------------------------|--------------|-----------|-----|--------|------------|
| Solids, Total Suspended | ND | ND | N/A | 0-20 | |

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - LCS/LCSD

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 09/29/14
 Work Order: 14-09-2270
 Preparation: N/A
 Method: SM 2540 D

Project: GWMA - TMDL Compliance Monitoring

Page 1 of 7

| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | LCS/LCSD Batch Number | | | |
|---------------------------|-------------|-----------|------------|---------------|----------------|-----------------------|-----|--------|------------|
| 099-09-010-6817 | LCS | Aqueous | N/A | 10/03/14 | 10/03/14 13:20 | E1003TSSL1 | | | |
| 099-09-010-6817 | LCSD | Aqueous | N/A | 10/03/14 | 10/03/14 13:20 | E1003TSSL1 | | | |
| Parameter | Spike Added | LCS Conc. | LCS %Rec. | LCSD Conc. | LCSD %Rec. | %Rec. CL | RPD | RPD CL | Qualifiers |
| Solids, Total Suspended | 100.0 | 93.00 | 93 | 99.00 | 99 | 80-120 | 6 | 0-20 | |

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - LCS/LCSD

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 09/29/14
Work Order: 14-09-2270
Preparation: EPA 1631E Total
Method: EPA 1631E

Project: GWMA - TMDL Compliance Monitoring

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| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | LCS/LCSD Batch Number | | | |
|---------------------------|-------------|-----------|------------|---------------|----------------|-----------------------|-----|--------|------------|
| 099-15-224-58 | LCS | Aqueous | Hg/AF 1 | 10/02/14 | 10/02/14 00:00 | 141002L01 | | | |
| 099-15-224-58 | LCSD | Aqueous | Hg/AF 1 | 10/02/14 | 10/02/14 00:00 | 141002L01 | | | |
| Parameter | Spike Added | LCS Conc. | LCS %Rec. | LCSD Conc. | LCSD %Rec. | %Rec. CL | RPD | RPD CL | Qualifiers |
| Mercury | 0.02000 | 0.01979 | 99 | 0.01959 | 98 | 71-125 | 1 | 0-20 | |

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RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - LCS/LCSD

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 09/29/14
Work Order: 14-09-2270
Preparation: Filtered
Method: EPA 1631E

Project: GWMA - TMDL Compliance Monitoring

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| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | LCS/LCSD Batch Number | | | |
|---------------------------|-------------|-----------|------------|---------------|----------------|-----------------------|-----|--------|------------|
| 099-15-226-43 | LCS | Aqueous | Hg/AF 1 | 10/02/14 | 10/02/14 00:00 | 141002L01F | | | |
| 099-15-226-43 | LCSD | Aqueous | Hg/AF 1 | 10/02/14 | 10/02/14 00:00 | 141002L01F | | | |
| Parameter | Spike Added | LCS Conc. | LCS %Rec. | LCSD Conc. | LCSD %Rec. | %Rec. CL | RPD | RPD CL | Qualifiers |
| Mercury | 0.02000 | 0.01979 | 99 | 0.01959 | 98 | 71-125 | 1 | 0-20 | |

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RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - LCS/LCSD

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 09/29/14
Work Order: 14-09-2270
Preparation: EPA 3005A Total
Method: EPA 1640

Project: GWMA - TMDL Compliance Monitoring

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| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | LCS/LCSD Batch Number | | | |
|---------------------------|-------------|-----------|------------|---------------|----------------|-----------------------|-----|--------|------------|
| 099-13-067-447 | LCS | Aqueous | ICP/MS 05 | 10/09/14 | 10/11/14 16:25 | 141009L01 | | | |
| 099-13-067-447 | LCSD | Aqueous | ICP/MS 05 | 10/09/14 | 10/11/14 16:33 | 141009L01 | | | |
| Parameter | Spike Added | LCS Conc. | LCS %Rec. | LCSD Conc. | LCSD %Rec. | %Rec. CL | RPD | RPD CL | Qualifiers |
| Cadmium | 0.5000 | 0.5263 | 105 | 0.5186 | 104 | 70-130 | 1 | 0-20 | |
| Chromium | 5.000 | 5.129 | 103 | 5.483 | 110 | 70-130 | 7 | 0-20 | |
| Copper | 0.5000 | 0.5171 | 103 | 0.5211 | 104 | 70-130 | 1 | 0-20 | |
| Lead | 0.5000 | 0.5382 | 108 | 0.5521 | 110 | 70-130 | 3 | 0-20 | |
| Zinc | 5.000 | 5.463 | 109 | 5.532 | 111 | 70-130 | 1 | 0-20 | |

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - LCS/LCSD

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 09/29/14
Work Order: 14-09-2270
Preparation: EPA 3005A Filt.
Method: EPA 1640

Project: GWMA - TMDL Compliance Monitoring

Page 5 of 7

| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | LCS/LCSD Batch Number | | | |
|---------------------------|-------------|-----------|------------|---------------|----------------|-----------------------|-----|--------|------------|
| 099-15-823-108 | LCS | Aqueous | ICP/MS 05 | 10/09/14 | 10/11/14 16:25 | 141009L01F | | | |
| 099-15-823-108 | LCSD | Aqueous | ICP/MS 05 | 10/09/14 | 10/11/14 16:33 | 141009L01F | | | |
| Parameter | Spike Added | LCS Conc. | LCS %Rec. | LCSD Conc. | LCSD %Rec. | %Rec. CL | RPD | RPD CL | Qualifiers |
| Cadmium | 0.5000 | 0.5263 | 105 | 0.5186 | 104 | 70-130 | 1 | 0-20 | |
| Chromium | 5.000 | 5.129 | 103 | 5.483 | 110 | 70-130 | 7 | 0-20 | |
| Copper | 0.5000 | 0.5171 | 103 | 0.5211 | 104 | 70-130 | 1 | 0-20 | |
| Lead | 0.5000 | 0.5382 | 108 | 0.5521 | 110 | 70-130 | 3 | 0-20 | |
| Zinc | 5.000 | 5.463 | 109 | 5.532 | 111 | 70-130 | 1 | 0-20 | |

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RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - LCS/LCSD

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 09/29/14
Work Order: 14-09-2270
Preparation: EPA 3510C
Method: EPA 8081A

Project: GWMA - TMDL Compliance Monitoring

Page 6 of 7

| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | LCS/LCSD Batch Number | | | |
|---------------------------|-------------|-----------|------------|---------------|----------------|-----------------------|-----|--------|------------|
| 099-16-036-9 | LCS | Aqueous | GC 44 | 10/01/14 | 10/04/14 10:18 | 141001L11 | | | |
| 099-16-036-9 | LCSD | Aqueous | GC 44 | 10/01/14 | 10/04/14 10:33 | 141001L11 | | | |
| Parameter | Spike Added | LCS Conc. | LCS %Rec. | LCSD Conc. | LCSD %Rec. | %Rec. CL | RPD | RPD CL | Qualifiers |
| 4,4'-DDD | 0.05000 | 0.04686 | 94 | 0.04429 | 89 | 50-150 | 6 | 0-25 | |
| 4,4'-DDE | 0.05000 | 0.04825 | 96 | 0.04696 | 94 | 50-150 | 3 | 0-25 | |
| 4,4'-DDT | 0.05000 | 0.04928 | 99 | 0.04726 | 95 | 50-150 | 4 | 0-25 | |
| Alpha Chlordane | 0.05000 | 0.04563 | 91 | 0.04376 | 88 | 50-150 | 4 | 0-25 | |
| Dieldrin | 0.05000 | 0.04776 | 96 | 0.04543 | 91 | 50-150 | 5 | 0-25 | |
| Gamma Chlordane | 0.05000 | 0.04851 | 97 | 0.04522 | 90 | 50-150 | 7 | 0-25 | |

RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - LCS/LCSD

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 09/29/14
Work Order: 14-09-2270
Preparation: EPA 3510C
Method: EPA 8270C SIM PCB Congeners

Project: GWMA - TMDL Compliance Monitoring

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| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | LCS/LCSD Batch Number | | | | |
|---------------------------|-------------|-----------|------------|---------------|----------------|-----------------------|--------|-----|--------|------------|
| 099-16-414-8 | LCS | Aqueous | GC/MS HHH | 09/30/14 | 10/03/14 12:46 | 140930L13A | | | | |
| 099-16-414-8 | LCSD | Aqueous | GC/MS HHH | 09/30/14 | 10/03/14 13:12 | 140930L13A | | | | |
| Parameter | Spike Added | LCS Conc. | LCS %Rec. | LCSD Conc. | LCSD %Rec. | %Rec. CL | ME CL | RPD | RPD CL | Qualifiers |
| PCB018 | 0.5000 | 0.4473 | 89 | 0.4462 | 89 | 50-150 | 33-167 | 0 | 0-25 | |
| PCB028 | 0.5000 | 0.4702 | 94 | 0.4644 | 93 | 50-150 | 33-167 | 1 | 0-25 | |
| PCB044 | 0.5000 | 0.4624 | 92 | 0.4580 | 92 | 50-150 | 33-167 | 1 | 0-25 | |
| PCB052 | 0.5000 | 0.4099 | 82 | 0.4060 | 81 | 50-150 | 33-167 | 1 | 0-25 | |
| PCB066 | 0.5000 | 0.5137 | 103 | 0.5028 | 101 | 50-150 | 33-167 | 2 | 0-25 | |
| PCB077 | 0.5000 | 0.5028 | 101 | 0.4970 | 99 | 50-150 | 33-167 | 1 | 0-25 | |
| PCB101 | 0.5000 | 0.4466 | 89 | 0.4417 | 88 | 50-150 | 33-167 | 1 | 0-25 | |
| PCB105 | 0.5000 | 0.4941 | 99 | 0.4890 | 98 | 50-150 | 33-167 | 1 | 0-25 | |
| PCB118 | 0.5000 | 0.5047 | 101 | 0.4984 | 100 | 50-150 | 33-167 | 1 | 0-25 | |
| PCB126 | 0.5000 | 0.4918 | 98 | 0.4883 | 98 | 50-150 | 33-167 | 1 | 0-25 | |
| PCB128 | 0.5000 | 0.4241 | 85 | 0.4249 | 85 | 50-150 | 33-167 | 0 | 0-25 | |
| PCB170 | 0.5000 | 0.3970 | 79 | 0.3919 | 78 | 50-150 | 33-167 | 1 | 0-25 | |
| PCB180 | 0.5000 | 0.4461 | 89 | 0.4343 | 87 | 50-150 | 33-167 | 3 | 0-25 | |
| PCB187 | 0.5000 | 0.4366 | 87 | 0.4347 | 87 | 50-150 | 33-167 | 0 | 0-25 | |
| PCB195 | 0.5000 | 0.4516 | 90 | 0.4520 | 90 | 50-150 | 33-167 | 0 | 0-25 | |
| PCB206 | 0.5000 | 0.4289 | 86 | 0.4197 | 84 | 50-150 | 33-167 | 2 | 0-25 | |

Total number of LCS compounds: 16

Total number of ME compounds: 0

Total number of ME compounds allowed: 1

LCS ME CL validation result: Pass

RPD: Relative Percent Difference. CL: Control Limits

Glossary of Terms and Qualifiers

Work Order: 14-09-2270

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| <u>Qualifiers</u> | <u>Definition</u> |
|-------------------|--|
| * | See applicable analysis comment. |
| < | Less than the indicated value. |
| > | Greater than the indicated value. |
| 1 | Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification. |
| 2 | Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification. |
| 3 | Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control. |
| 4 | The MS/MSD RPD was out of control due to suspected matrix interference. |
| 5 | The PDS/PDSO or PES/PESO associated with this batch of samples was out of control due to suspected matrix interference. |
| 6 | Surrogate recovery below the acceptance limit. |
| 7 | Surrogate recovery above the acceptance limit. |
| B | Analyte was present in the associated method blank. |
| BU | Sample analyzed after holding time expired. |
| BV | Sample received after holding time expired. |
| E | Concentration exceeds the calibration range. |
| ET | Sample was extracted past end of recommended max. holding time. |
| HD | The chromatographic pattern was inconsistent with the profile of the reference fuel standard. |
| HDH | The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected). |
| HDL | The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected). |
| J | Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated. |
| JA | Analyte positively identified but quantitation is an estimate. |
| ME | LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean). |
| ND | Parameter not detected at the indicated reporting limit. |
| Q | Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater. |
| SG | The sample extract was subjected to Silica Gel treatment prior to analysis. |
| X | % Recovery and/or RPD out-of-range. |
| Z | Analyte presence was not confirmed by second column or GC/MS analysis. |

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

Chain of Custody Record & Laboratory Analysis Request

| | | |
|--|--|---|
| Laboratory Number: Date: <u>9.23.14</u> Project Name: <u>GWMA-TMDL Compliance Monitoring</u> Project Number: <u>141205-01.01</u> Project Manager: <u>Andy Martin</u> Phone Number: <u>(949) 334 9630</u> Shipment Method: <u>Courier</u> | Parameters <div style="font-size: 2em; font-weight: bold;">14-09-2270</div> |  |
|--|--|---|

| Line | Field Sample ID | Collection Date/Time | Matrix | No. of Containers | TSS | Total and dissolved metals | Organochlorine pesticides | PCB congeners | Comments/Preservation |
|------|-----------------------|----------------------|--------|-------------------|-----|----------------------------|---------------------------|---------------|-----------------------|
| 1 | OB-RW-10-G-S-20140928 | 9.23.14 1125 | water | 10 | X | X | X | X | |
| 2 | OB-RW-10-G-M-20140928 | 1130 | | 1 | X | X | X | X | |
| 3 | OB-RW-10-G-B-20140928 | 1135 | | 1 | X | X | X | X | |
| 4 | IB-RW-12-G-S-20140928 | 1220 | | 6 | X | X | X | X | |
| 5 | IB-RW-12-G-M-20140928 | 1222 | | 1 | X | X | X | X | |
| 6 | IB-RW-12-G-B-20140928 | 1228 | | 1 | X | X | X | X | |
| 7 | IB-RW-13-G-S-20140928 | 1307 | | 6 | X | X | X | X | |
| 8 | IB-RW-13-G-B-20140928 | 1317+1318 | | 1 | X | X | X | X | |
| 9 | IB-RW-13-G-M-20140928 | 1321+1317 | | 1 | X | X | X | X | |
| 10 | IB-RW-14-G-S-20140928 | 1340 | | 6 | X | X | X | X | |
| 11 | IB-RW-14-G-M-20140928 | 1342 | | 1 | X | X | X | X | |
| 12 | IB-RW-14-G-B-20140928 | 1344 | | 1 | X | X | X | X | |
| 13 | IB-RW-15-G-S-20140928 | 1417 | | 6 | X | X | X | X | |
| 14 | IB-RW-15-G-M-20140928 | 1420 | | 1 | X | X | X | X | |
| 15 | IB-RW-15-G-B-20140928 | 1423 | | 1 | X | X | X | X | |

Notes:

| | |
|---------------------------------------|----------------------------|
| Relinquished By: <u>Britt Geisler</u> | Company: <u>Anchor QEA</u> |
| Signature/Printed Name | Date/Time: <u>9.29.14</u> |

| | |
|----------------------------------|--------------------------------|
| Received By: <u>Ally Marquez</u> | Company: <u>ECC</u> |
| Signature/Printed Name | Date/Time: <u>9/29/14 1234</u> |

| | |
|--------------------------------------|--------------------------------|
| Relinquished By: <u>Ally Marquez</u> | Company: <u>ECC</u> |
| Signature/Printed Name | Date/Time: <u>9/29/14 1355</u> |

| | |
|----------------------------------|--------------------------------|
| Received By: <u>Ally Marquez</u> | Company: <u>ECC</u> |
| Signature/Printed Name | Date/Time: <u>9/29/14 1355</u> |

Calscience

WORK ORDER #: **14-09-** 2 2 7 0

SAMPLE RECEIPT FORM

Cooler 1 of 3

CLIENT: ANCHOR

DATE: 09/29/14

TEMPERATURE: Thermometer ID: SC1 (Criteria: 0.0 °C – 6.0 °C, not frozen except sediment/tissue)

Temperature 2.9 °C - 0.3 °C (CF) = 2.6 °C Blank Sample

Sample(s) outside temperature criteria (PM/APM contacted by: _____)

Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: Air Filter

Checked by: 678

CUSTODY SEALS INTACT:

Cooler _____ No (Not Intact) Not Present N/A

Sample _____ No (Not Intact) Not Present

Checked by: 678
Checked by: SM

SAMPLE CONDITION:

| | Yes | No | N/A |
|---|-------------------------------------|--------------------------|-------------------------------------|
| Chain-Of-Custody (COC) document(s) received with samples..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| COC document(s) received complete..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> Collection date/time, matrix, and/or # of containers logged in based on sample labels. | | | |
| <input type="checkbox"/> No analysis requested. <input type="checkbox"/> Not relinquished. <input type="checkbox"/> No date/time relinquished. | | | |
| Sampler's name indicated on COC..... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Sample container label(s) consistent with COC..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Sample container(s) intact and good condition..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Proper containers and sufficient volume for analyses requested..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Analyses received within holding time..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Aqueous samples received within 15-minute holding time | | | |
| <input type="checkbox"/> pH <input type="checkbox"/> Residual Chlorine <input type="checkbox"/> Dissolved Sulfides <input type="checkbox"/> Dissolved Oxygen..... | | | |
| Proper preservation noted on COC or sample container..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> Unpreserved vials received for Volatiles analysis | | | |
| Volatile analysis container(s) free of headspace..... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Tedlar bag(s) free of condensation..... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

CONTAINER TYPE:

Solid: 4ozCGJ 8ozCGJ 16ozCGJ Sleeve (____) EnCores® TerraCores® _____

Aqueous: VOA VOA_h VOA_{na2} 125AGB 125AGB_h 125AGB_p 1AGB 1AGB_{na2} 1AGB_s

500AGB 500AGJ 500AGJ_s 250AGB 250CGB 250CGB_s 1PB 1PB_{na} 500PB

250PB 250PB_n 125PB 125PB_z 100PJ 100PJ_{na2} _____ _____ _____

Air: Tedlar® Canister **Other:** _____ **Trip Blank Lot#:** _____ **Labeled/Checked by:** SM

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope **Reviewed by:** IS

Preservative: h: HCL n: HNO₃ na₂: Na₂S₂O₃ na: NaOH p: H₃PO₄ s: H₂SO₄ u: Ultra-pure z: ZnAc₂+NaOH f: Filtered **Scanned by:** SM

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Calscience

WORK ORDER #: **14-09-2276**

SAMPLE RECEIPT FORM

Cooler 2 of 3

CLIENT: Anchor

DATE: 09/29/14

TEMPERATURE: Thermometer ID: SC1 (Criteria: 0.0 °C – 6.0 °C, not frozen except sediment/tissue)

Temperature 3.0 °C - 0.3 °C (CF) = 2.7 °C Blank Sample

Sample(s) outside temperature criteria (PM/APM contacted by: _____)

Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: Air Filter

Checked by: 678

CUSTODY SEALS INTACT:

Cooler _____ No (Not Intact) Not Present N/A

Sample _____ No (Not Intact) Not Present

Checked by: 678

Checked by: 846

SAMPLE CONDITION:

| | Yes | No | N/A |
|---|-------------------------------------|--------------------------|-------------------------------------|
| Chain-Of-Custody (COC) document(s) received with samples..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| COC document(s) received complete..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> Collection date/time, matrix, and/or # of containers logged in based on sample labels. | | | |
| <input type="checkbox"/> No analysis requested. <input type="checkbox"/> Not relinquished. <input type="checkbox"/> No date/time relinquished. | | | |
| Sampler's name indicated on COC..... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Sample container label(s) consistent with COC..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Sample container(s) intact and good condition..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Proper containers and sufficient volume for analyses requested..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Analyses received within holding time..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Aqueous samples received within 15-minute holding time | | | |
| <input type="checkbox"/> pH <input type="checkbox"/> Residual Chlorine <input type="checkbox"/> Dissolved Sulfides <input type="checkbox"/> Dissolved Oxygen..... | | | |
| Proper preservation noted on COC or sample container..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> Unpreserved vials received for Volatiles analysis | | | |
| Volatile analysis container(s) free of headspace..... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Tedlar bag(s) free of condensation..... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

CONTAINER TYPE:

Solid: 4ozCGJ 8ozCGJ 16ozCGJ Sleeve (____) EnCores® TerraCores® _____

Aqueous: VOA VOA_h VOA_{na2} 125AGB 125AGB_h 125AGB_p 1AGB 1AGB_{na2} 1AGB_s

500AGB 500AGJ 500AGJ_s 250AGB 250CGB 250CGB_s 1PB 1PB_{na} 500PB

250PB 250PB_n 125PB 125PB_{z_{na}} 100PJ 100PJ_{na2} _____ _____ _____

Air: Tedlar® Canister **Other:** _____ **Trip Blank Lot#:** _____ **Labeled/Checked by:** 846

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope **Reviewed by:** 15

Preservative: h: HCL n: HNO₃ na₂: Na₂S₂O₃ na: NaOH p: H₃PO₄ s: H₂SO₄ u: Ultra-pure z_{na}: ZnAc₂+NaOH f: Filtered **Scanned by:** 846

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Calscience

WORK ORDER #: 14-09-2270

SAMPLE RECEIPT FORM

Cooler 3 of 3

CLIENT: ANCHOR

DATE: 09/29/14

TEMPERATURE: Thermometer ID: SC1 (Criteria: 0.0 °C – 6.0 °C, not frozen except sediment/tissue)

Temperature 2.8 °C - 0.3 °C (CF) = 2.5 °C [X] Blank [] Sample

[] Sample(s) outside temperature criteria (PM/APM contacted by: _____)

[] Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

[] Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: [] Air [] Filter

Checked by: 678

CUSTODY SEALS INTACT:

[] Cooler [] _____ [] No (Not Intact) [X] Not Present [] N/A

Checked by: 678

[] Sample [] _____ [] No (Not Intact) [X] Not Present

Checked by: 806

SAMPLE CONDITION:

Chain-Of-Custody (COC) document(s) received with samples..... [X] Yes [] No [] N/A

COC document(s) received complete..... [X] Yes [] No [] N/A

[] Collection date/time, matrix, and/or # of containers logged in based on sample labels.

[] No analysis requested. [] Not relinquished. [] No date/time relinquished.

Sampler's name indicated on COC..... [] Yes [] No [X] N/A

Sample container label(s) consistent with COC..... [X] Yes [] No [] N/A

Sample container(s) intact and good condition..... [X] Yes [] No [] N/A

Proper containers and sufficient volume for analyses requested..... [X] Yes [] No [] N/A

Analyses received within holding time..... [X] Yes [] No [] N/A

Aqueous samples received within 15-minute holding time

[] pH [] Residual Chlorine [] Dissolved Sulfides [] Dissolved Oxygen..... [] Yes [] No [X] N/A

Proper preservation noted on COC or sample container..... [X] Yes [] No [] N/A

[] Unpreserved vials received for Volatiles analysis

Volatile analysis container(s) free of headspace..... [] Yes [] No [X] N/A

Tedlar bag(s) free of condensation..... [] Yes [] No [X] N/A

CONTAINER TYPE:

Solid: [] 4ozCGJ [] 8ozCGJ [] 16ozCGJ [] Sleeve (____) [] EnCores® [] TerraCores® [] _____

Aqueous: [] VOA [] VOAh [] VOAna2 [] 125AGB [] 125AGBh [] 125AGBp [] 1AGB [] 1AGBna2 [] 1AGBs

[] 500AGB [] 500AGJ [] 500AGJs [] 250AGB [] 250CGB [] 250CGBs [] 1PB [] 1PBna [] 500PB

[] 250PB [] 250PBn [] 125PB [] 125PBzanna [] 100PJ [] 100PJna2 [] _____ [] _____ [] _____

Air: [] Tedlar® [] Canister Other: [] _____ Trip Blank Lot#: _____ Labeled/Checked by: 804

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope Reviewed by: 15

Preservative: h: HCL n: HNO3 na2: Na2S2O3 na: NaOH p: H3PO4 s: H2SO4 u: Ultra-pure zanna: ZnAc2+NaOH f: Filtered Scanned by: 804

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Calscience



WORK ORDER NUMBER: 14-09-2205

The difference is service



AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: ANCHOR QEA, LLC

Client Project Name: GWMA - TMDL Compliance Monitoring

Attention: Andy Martin

27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Danielle Gonsman

Approved for release on 10/14/2014 by:
Danielle Gonsman
Project Manager

ResultLink ▶

Email your PM ▶



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 Work Order Number: 14-09-2205

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CASE NARRATIVE

Calscience Work Order No.: 14-09-2205
Project ID: GWMA-TMDL Compliance Monitoring

Provided below is a narrative of our analytical effort, including any unique features or anomalies encountered as part of the analysis of the seawater samples.

Sample Condition on Receipt

Nineteen seawater samples were received for this project on 26 September, 2014. The samples were transferred to the laboratory in an ice-chest with wet ice, following strict chain-of-custody (COC) procedures. The temperature of the samples upon receipt at the laboratory was 2.0-2.1°C. All samples were given laboratory identification numbers and logged into the Laboratory Information Management System (LIMS).

Tests Performed

Total Suspended Solids by SM 2540B (M)
Total and Dissolved Metals by EPA 1640/1631
Chlorinated Pesticides by EPA 8081A
PCB Congeners by EPA 8270C SIM

Data Summary

Samples were filtered in the laboratory for the dissolved metals analyses.

Holding times

All holding times were met.

Calibration

Frequency and control criteria for initial and continuing calibration verifications were met.

Reporting Limits

All Method Detection Limits were met. The results were evaluated to the MDL, and where applicable, "J" flags were reported.

Blanks

Concentrations of target analytes in the method blank were found to be below reporting limits for all testing.

Trace levels (below the RL, but above the MDL) of Cadmium, Lead and Zinc were detected in the EPA 1640 Method Blank. The results have been flagged with B-qualifiers.

Laboratory Control Samples

A Laboratory Control Sample (LCS) analysis was performed at the required frequencies, and unless otherwise noted, all parameters were within the established control limits.

Matrix Spikes and QC Duplicates

Matrix spike analyses and/or QC Duplicates were performed for each applicable analysis when additional volume was available. All parameters were within the established control limits unless otherwise noted (non-project spike/duplicate samples, if any, are not discussed).

Surrogates

Surrogate recoveries for all applicable tests and samples were within the established control limits.

Acronyms

LCS - Laboratory Control Sample
MS/MSD- Matrix Spike/Matrix Spike Duplicate
PDS - Post Digestion Spike
RPD- Relative Percent Difference

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 09/26/14. They were assigned to Work Order 14-09-2205.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of ≤ 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

New York NELAP air certification does not certify for all reported methods and analytes, reference the accredited items here: http://www.calscience.com/PDF/New_York.pdf

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.



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Sample Summary

| | |
|------------------------------|---|
| Client: ANCHOR QEA, LLC | Work Order: 14-09-2205 |
| 27201 Puerta Real, Suite 350 | Project Name: GWMA - TMDL Compliance Monitoring |
| Mission Viejo, CA 92691-8306 | PO Number: |
| | Date/Time Received: 09/26/14 19:10 |
| | Number of Containers: 50 |

Attn: Andy Martin

| Sample Identification | Lab Number | Collection Date and Time | Number of Containers | Matrix |
|-------------------------------|---------------|--------------------------|----------------------|-----------|
| LE-RW-22-G-S-20140926 | 14-09-2205-1 | 09/26/14 09:57 | 6 | Sea Water |
| LE-RW-22-G-M-20140926 | 14-09-2205-2 | 09/26/14 09:59 | 1 | Sea Water |
| LE-RW-22-G-B-20140926 | 14-09-2205-3 | 09/26/14 10:01 | 1 | Sea Water |
| LE-RW-21-G-S-20140926 | 14-09-2205-4 | 09/26/14 10:37 | 6 | Sea Water |
| LE-RW-21-G-M-20140926 | 14-09-2205-5 | 09/26/14 13:09 | 1 | Sea Water |
| LE-RW-21-G-B-20140926 | 14-09-2205-6 | 09/26/14 13:12 | 1 | Sea Water |
| SP-RW-18-G-S-20140926 | 14-09-2205-7 | 09/26/14 13:30 | 6 | Sea Water |
| SP-RW-18-G-M-20140926 | 14-09-2205-8 | 09/26/14 13:35 | 1 | Sea Water |
| SP-RW-18-G-B-20140926 | 14-09-2205-9 | 09/26/14 13:40 | 1 | Sea Water |
| SP-RW-19-G-S-20140926 | 14-09-2205-10 | 09/26/14 14:25 | 6 | Sea Water |
| SP-RW-19-G-M-20140926 | 14-09-2205-11 | 09/26/14 14:30 | 1 | Sea Water |
| SP-RW-19-G-B-20140926 | 14-09-2205-12 | 09/26/14 14:35 | 1 | Sea Water |
| SP-RW-20-G-S-20140926 | 14-09-2205-13 | 09/26/14 15:25 | 6 | Sea Water |
| SP-RW-20-G-M-20140926 | 14-09-2205-14 | 09/26/14 15:30 | 1 | Sea Water |
| SP-RW-20-G-B-20140926 | 14-09-2205-15 | 09/26/14 15:35 | 1 | Sea Water |
| OB-RW-17-G-S-20140926 | 14-09-2205-16 | 09/26/14 16:20 | 6 | Sea Water |
| OB-RW-17-G-M-20140926 | 14-09-2205-17 | 09/26/14 16:25 | 1 | Sea Water |
| OB-RW-17-G-B-20140926 | 14-09-2205-18 | 09/26/14 16:30 | 1 | Sea Water |
| OB-RW-1017-G-M-20140926 | 14-09-2205-19 | 09/26/14 16:25 | 1 | Sea Water |
| SP-RW-19-G-M-20140926 LAB DUP | 14-09-2205-20 | 09/26/14 14:30 | 1 | Sea Water |


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Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 09/26/14
Work Order: 14-09-2205
Preparation: N/A
Method: SM 2540 D
Units: mg/L

Project: GWMA - TMDL Compliance Monitoring

Page 1 of 4

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| LE-RW-22-G-S-20140926 | 14-09-2205-1-A | 09/26/14 09:57 | Sea Water | N/A | 10/03/14 | 10/03/14 17:25 | E1003TSSL3 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 1.8 | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| LE-RW-22-G-M-20140926 | 14-09-2205-2-A | 09/26/14 09:59 | Sea Water | N/A | 10/03/14 | 10/03/14 17:25 | E1003TSSL3 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 5.2 | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| LE-RW-22-G-B-20140926 | 14-09-2205-3-A | 09/26/14 10:01 | Sea Water | N/A | 10/03/14 | 10/03/14 17:25 | E1003TSSL3 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 5.1 | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| LE-RW-21-G-S-20140926 | 14-09-2205-4-A | 09/26/14 10:37 | Sea Water | N/A | 10/03/14 | 10/03/14 17:25 | E1003TSSL3 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 1.6 | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| LE-RW-21-G-M-20140926 | 14-09-2205-5-A | 09/26/14 13:09 | Sea Water | N/A | 10/03/14 | 10/03/14 17:25 | E1003TSSL3 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 2.5 | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| LE-RW-21-G-B-20140926 | 14-09-2205-6-A | 09/26/14 13:12 | Sea Water | N/A | 10/03/14 | 10/03/14 17:25 | E1003TSSL3 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 3.1 | 1.0 | 0.95 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 09/26/14
Work Order: 14-09-2205
Preparation: N/A
Method: SM 2540 D
Units: mg/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| SP-RW-18-G-S-20140926 | 14-09-2205-7-A | 09/26/14 13:30 | Sea Water | N/A | 10/03/14 | 10/03/14 17:25 | E1003TSSL3 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 1.3 | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| SP-RW-18-G-M-20140926 | 14-09-2205-8-A | 09/26/14 13:35 | Sea Water | N/A | 10/03/14 | 10/03/14 17:25 | E1003TSSL3 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 1.7 | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| SP-RW-18-G-B-20140926 | 14-09-2205-9-A | 09/26/14 13:40 | Sea Water | N/A | 10/03/14 | 10/03/14 17:25 | E1003TSSL3 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 14 | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| SP-RW-19-G-S-20140926 | 14-09-2205-10-A | 09/26/14 14:25 | Sea Water | N/A | 10/03/14 | 10/03/14 17:25 | E1003TSSL3 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 1.1 | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| SP-RW-19-G-M-20140926 | 14-09-2205-11-A | 09/26/14 14:30 | Sea Water | N/A | 10/03/14 | 10/03/14 17:25 | E1003TSSL3 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | ND | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| SP-RW-19-G-B-20140926 | 14-09-2205-12-A | 09/26/14 14:35 | Sea Water | N/A | 10/03/14 | 10/03/14 17:25 | E1003TSSL3 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 1.6 | 1.0 | 0.95 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 09/26/14
Work Order: 14-09-2205
Preparation: N/A
Method: SM 2540 D
Units: mg/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| SP-RW-20-G-S-20140926 | 14-09-2205-13-A | 09/26/14 15:25 | Sea Water | N/A | 10/03/14 | 10/03/14 17:25 | E1003TSSL3 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | ND | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| SP-RW-20-G-M-20140926 | 14-09-2205-14-A | 09/26/14 15:30 | Sea Water | N/A | 10/03/14 | 10/03/14 17:25 | E1003TSSL3 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 1.2 | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| SP-RW-20-G-B-20140926 | 14-09-2205-15-A | 09/26/14 15:35 | Sea Water | N/A | 10/03/14 | 10/03/14 17:25 | E1003TSSL3 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 1.4 | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OB-RW-17-G-S-20140926 | 14-09-2205-16-A | 09/26/14 16:20 | Sea Water | N/A | 10/03/14 | 10/03/14 17:25 | E1003TSSL3 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | ND | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OB-RW-17-G-M-20140926 | 14-09-2205-17-A | 09/26/14 16:25 | Sea Water | N/A | 10/03/14 | 10/03/14 17:25 | E1003TSSL3 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 1.1 | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OB-RW-17-G-B-20140926 | 14-09-2205-18-A | 09/26/14 16:30 | Sea Water | N/A | 10/03/14 | 10/03/14 17:25 | E1003TSSL3 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 3.1 | 1.0 | 0.95 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 09/26/14
Work Order: 14-09-2205
Preparation: N/A
Method: SM 2540 D
Units: mg/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-------------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OB-RW-1017-G-M-20140926 | 14-09-2205-19-A | 09/26/14 16:25 | Sea Water | N/A | 10/03/14 | 10/03/14 17:25 | E1003TSSL3 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 1.1 | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-------------------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| SP-RW-19-G-M-20140926 LAB DUP | 14-09-2205-20-A | 09/26/14 14:30 | Sea Water | N/A | 10/03/14 | 10/03/14 17:25 | E1003TSSL3 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 1.0 | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|---------|------------|---------------|--------------------|-------------|
| Method Blank | 099-09-010-6819 | N/A | Aqueous | N/A | 10/03/14 | 10/03/14 17:25 | E1003TSSL3 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | ND | 1.0 | 0.95 | 1.00 | |

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 09/26/14
Work Order: 14-09-2205
Preparation: EPA 1631E Total
Method: EPA 1631E
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

Page 1 of 2

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| LE-RW-22-G-S-20140926 | 14-09-2205-1-C | 09/26/14 09:57 | Sea Water | Hg/AF 1 | 10/02/14 | 10/02/14 00:00 | 141002L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|---------|----------|----------|------|------------|
| Mercury | 0.00103 | 0.000500 | 0.000146 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| LE-RW-21-G-S-20140926 | 14-09-2205-4-C | 09/26/14 10:37 | Sea Water | Hg/AF 1 | 10/02/14 | 10/02/14 00:00 | 141002L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|---------|----------|----------|------|------------|
| Mercury | 0.00126 | 0.000500 | 0.000146 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| SP-RW-18-G-S-20140926 | 14-09-2205-7-C | 09/26/14 13:30 | Sea Water | Hg/AF 1 | 10/02/14 | 10/02/14 00:00 | 141002L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|---------|----------|----------|------|------------|
| Mercury | 0.00127 | 0.000500 | 0.000146 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| SP-RW-19-G-S-20140926 | 14-09-2205-10-C | 09/26/14 14:25 | Sea Water | Hg/AF 1 | 10/02/14 | 10/02/14 00:00 | 141002L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|---------|----------|----------|------|------------|
| Mercury | 0.00191 | 0.000500 | 0.000146 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| SP-RW-20-G-S-20140926 | 14-09-2205-13-C | 09/26/14 15:25 | Sea Water | Hg/AF 1 | 10/02/14 | 10/02/14 00:00 | 141002L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|---------|----------|----------|------|------------|
| Mercury | 0.00109 | 0.000500 | 0.000146 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OB-RW-17-G-S-20140926 | 14-09-2205-16-C | 09/26/14 16:20 | Sea Water | Hg/AF 1 | 10/02/14 | 10/02/14 00:00 | 141002L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|----------|----------|----------|------|------------|
| Mercury | 0.000946 | 0.000500 | 0.000146 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

| | | |
|--|----------------|-----------------|
| ANCHOR QEA, LLC | Date Received: | 09/26/14 |
| 27201 Puerta Real, Suite 350 | Work Order: | 14-09-2205 |
| Mission Viejo, CA 92691-8306 | Preparation: | EPA 1631E Total |
| | Method: | EPA 1631E |
| | Units: | ug/L |
| Project: GWMA - TMDL Compliance Monitoring | | Page 2 of 2 |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|---------|------------|---------------|--------------------|-------------|
| Method Blank | 099-15-224-58 | N/A | Aqueous | Hg/AF 1 | 10/02/14 | 10/02/14 00:00 | 141002L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|---------------|-----------|------------|-----------|-------------------|
| Mercury | ND | 0.000500 | 0.000146 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 09/26/14
Work Order: 14-09-2205
Preparation: Filtered
Method: EPA 1631E
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

Page 1 of 2

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| LE-RW-22-G-S-20140926 | 14-09-2205-1-C | 09/26/14 09:57 | Sea Water | Hg/AF 1 | 10/07/14 | 10/07/14 00:00 | 141007L01F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|----------|----------|----------|------|------------|
| Mercury | 0.000906 | 0.000500 | 0.000146 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| LE-RW-21-G-S-20140926 | 14-09-2205-4-C | 09/26/14 10:37 | Sea Water | Hg/AF 1 | 10/07/14 | 10/07/14 00:00 | 141007L01F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|----------|----------|----------|------|------------|
| Mercury | 0.000695 | 0.000500 | 0.000146 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| SP-RW-18-G-S-20140926 | 14-09-2205-7-C | 09/26/14 13:30 | Sea Water | Hg/AF 1 | 10/07/14 | 10/07/14 00:00 | 141007L01F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|----------|----------|----------|------|------------|
| Mercury | 0.000737 | 0.000500 | 0.000146 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| SP-RW-19-G-S-20140926 | 14-09-2205-10-C | 09/26/14 14:25 | Sea Water | Hg/AF 1 | 10/07/14 | 10/07/14 00:00 | 141007L01F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|----------|----------|----------|------|------------|
| Mercury | 0.000584 | 0.000500 | 0.000146 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| SP-RW-20-G-S-20140926 | 14-09-2205-13-C | 09/26/14 15:25 | Sea Water | Hg/AF 1 | 10/07/14 | 10/07/14 00:00 | 141007L01F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|----------|----------|----------|------|------------|
| Mercury | 0.000819 | 0.000500 | 0.000146 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OB-RW-17-G-S-20140926 | 14-09-2205-16-C | 09/26/14 16:20 | Sea Water | Hg/AF 1 | 10/07/14 | 10/07/14 00:00 | 141007L01F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|----------|----------|----------|------|------------|
| Mercury | 0.000597 | 0.000500 | 0.000146 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

| | | |
|------------------------------|----------------|------------|
| ANCHOR QEA, LLC | Date Received: | 09/26/14 |
| 27201 Puerta Real, Suite 350 | Work Order: | 14-09-2205 |
| Mission Viejo, CA 92691-8306 | Preparation: | Filtered |
| | Method: | EPA 1631E |
| | Units: | ug/L |

Project: GWMA - TMDL Compliance Monitoring

Page 2 of 2

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|----------------------|---------------------|----------------|----------------|-----------------|---------------------------|-------------------|
| Method Blank | 099-15-226-47 | N/A | Aqueous | Hg/AF 1 | 10/07/14 | 10/07/14 00:00 | 141007L01F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|---------------|-----------|------------|-----------|-------------------|
| Mercury | ND | 0.000500 | 0.000146 | 1.00 | |

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 09/26/14
Work Order: 14-09-2205
Preparation: EPA 3005A Total
Method: EPA 1640
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| LE-RW-22-G-S-20140926 | 14-09-2205-1-B | 09/26/14 09:57 | Sea Water | ICP/MS 05 | 09/28/14 | 09/28/14 19:47 | 140928L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0571 | 0.0300 | 0.00567 | 1.00 | B |
| Chromium | ND | 0.500 | 0.164 | 1.00 | |
| Copper | 1.95 | 0.0300 | 0.00898 | 1.00 | |
| Lead | 0.427 | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 12.2 | 0.500 | 0.0736 | 1.00 | B |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| LE-RW-21-G-S-20140926 | 14-09-2205-4-B | 09/26/14 10:37 | Sea Water | ICP/MS 05 | 09/28/14 | 09/28/14 19:56 | 140928L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0520 | 0.0300 | 0.00567 | 1.00 | B |
| Chromium | ND | 0.500 | 0.164 | 1.00 | |
| Copper | 1.44 | 0.0300 | 0.00898 | 1.00 | |
| Lead | 0.376 | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 5.69 | 0.500 | 0.0736 | 1.00 | B |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| SP-RW-18-G-S-20140926 | 14-09-2205-7-B | 09/26/14 13:30 | Sea Water | ICP/MS 05 | 09/28/14 | 09/28/14 20:04 | 140928L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0482 | 0.0300 | 0.00567 | 1.00 | B |
| Chromium | ND | 0.500 | 0.164 | 1.00 | |
| Copper | 0.766 | 0.0300 | 0.00898 | 1.00 | |
| Lead | 0.190 | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 3.46 | 0.500 | 0.0736 | 1.00 | B |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 09/26/14
Work Order: 14-09-2205
Preparation: EPA 3005A Total
Method: EPA 1640
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

Page 2 of 3

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| SP-RW-19-G-S-20140926 | 14-09-2205-10-B | 09/26/14 14:25 | Sea Water | ICP/MS 05 | 09/28/14 | 09/28/14 20:44 | 140928L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0429 | 0.0300 | 0.00567 | 1.00 | B |
| Chromium | ND | 0.500 | 0.164 | 1.00 | |
| Copper | 0.581 | 0.0300 | 0.00898 | 1.00 | |
| Lead | 0.244 | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 2.30 | 0.500 | 0.0736 | 1.00 | B |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| SP-RW-20-G-S-20140926 | 14-09-2205-13-B | 09/26/14 15:25 | Sea Water | ICP/MS 05 | 09/28/14 | 09/28/14 20:52 | 140928L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0424 | 0.0300 | 0.00567 | 1.00 | B |
| Chromium | ND | 0.500 | 0.164 | 1.00 | |
| Copper | 0.495 | 0.0300 | 0.00898 | 1.00 | |
| Lead | 0.247 | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 2.08 | 0.500 | 0.0736 | 1.00 | B |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OB-RW-17-G-S-20140926 | 14-09-2205-16-B | 09/26/14 16:20 | Sea Water | ICP/MS 05 | 09/28/14 | 09/28/14 21:00 | 140928L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0422 | 0.0300 | 0.00567 | 1.00 | B |
| Chromium | ND | 0.500 | 0.164 | 1.00 | |
| Copper | 0.725 | 0.0300 | 0.00898 | 1.00 | |
| Lead | 0.375 | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 3.76 | 0.500 | 0.0736 | 1.00 | B |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 09/26/14
Work Order: 14-09-2205
Preparation: EPA 3005A Total
Method: EPA 1640
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

Page 3 of 3

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|---------|------------|---------------|--------------------|-------------|
| Method Blank | 099-13-067-446 | N/A | Aqueous | ICP/MS 05 | 09/28/14 | 09/28/14 15:46 | 140928L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|---------------|-----------|------------|-----------|-------------------|
| Cadmium | 0.0111 | 0.0300 | 0.00567 | 1.00 | J |
| Chromium | ND | 0.500 | 0.164 | 1.00 | |
| Copper | ND | 0.0300 | 0.00898 | 1.00 | |
| Lead | ND | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 0.210 | 0.500 | 0.0736 | 1.00 | J |


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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 09/26/14
Work Order: 14-09-2205
Preparation: EPA 3005A Filt.
Method: EPA 1640
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

Page 1 of 3

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| LE-RW-22-G-S-20140926 | 14-09-2205-1-C | 09/26/14 09:57 | Sea Water | ICP/MS 05 | 09/28/14 | 09/28/14 18:59 | 140928L01F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0348 | 0.0300 | 0.00567 | 1.00 | B |
| Chromium | ND | 0.500 | 0.164 | 1.00 | |
| Copper | 1.02 | 0.0300 | 0.00898 | 1.00 | |
| Lead | 0.0625 | 0.0300 | 0.0135 | 1.00 | B |
| Zinc | 4.58 | 0.500 | 0.0736 | 1.00 | B |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| LE-RW-21-G-S-20140926 | 14-09-2205-4-C | 09/26/14 10:37 | Sea Water | ICP/MS 05 | 09/28/14 | 09/28/14 19:07 | 140928L01F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0575 | 0.0300 | 0.00567 | 1.00 | B |
| Chromium | ND | 0.500 | 0.164 | 1.00 | |
| Copper | 0.929 | 0.0300 | 0.00898 | 1.00 | |
| Lead | 0.0862 | 0.0300 | 0.0135 | 1.00 | B |
| Zinc | 4.70 | 0.500 | 0.0736 | 1.00 | B |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| SP-RW-18-G-S-20140926 | 14-09-2205-7-C | 09/26/14 13:30 | Sea Water | ICP/MS 05 | 09/28/14 | 09/28/14 19:15 | 140928L01F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0535 | 0.0300 | 0.00567 | 1.00 | B |
| Chromium | ND | 0.500 | 0.164 | 1.00 | |
| Copper | 0.666 | 0.0300 | 0.00898 | 1.00 | |
| Lead | 0.0618 | 0.0300 | 0.0135 | 1.00 | B |
| Zinc | 3.81 | 0.500 | 0.0736 | 1.00 | B |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 09/26/14
Work Order: 14-09-2205
Preparation: EPA 3005A Filt.
Method: EPA 1640
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

Page 2 of 3

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| SP-RW-19-G-S-20140926 | 14-09-2205-10-C | 09/26/14 14:25 | Sea Water | ICP/MS 05 | 09/28/14 | 09/28/14 19:23 | 140928L01F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0384 | 0.0300 | 0.00567 | 1.00 | B |
| Chromium | ND | 0.500 | 0.164 | 1.00 | |
| Copper | 0.389 | 0.0300 | 0.00898 | 1.00 | |
| Lead | 0.0941 | 0.0300 | 0.0135 | 1.00 | B |
| Zinc | 1.51 | 0.500 | 0.0736 | 1.00 | B |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| SP-RW-20-G-S-20140926 | 14-09-2205-13-C | 09/26/14 15:25 | Sea Water | ICP/MS 05 | 09/28/14 | 09/28/14 19:31 | 140928L01F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0468 | 0.0300 | 0.00567 | 1.00 | B |
| Chromium | ND | 0.500 | 0.164 | 1.00 | |
| Copper | 0.420 | 0.0300 | 0.00898 | 1.00 | |
| Lead | 0.176 | 0.0300 | 0.0135 | 1.00 | B |
| Zinc | 1.83 | 0.500 | 0.0736 | 1.00 | B |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OB-RW-17-G-S-20140926 | 14-09-2205-16-C | 09/26/14 16:20 | Sea Water | ICP/MS 05 | 09/28/14 | 09/28/14 19:39 | 140928L01F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0464 | 0.0300 | 0.00567 | 1.00 | B |
| Chromium | ND | 0.500 | 0.164 | 1.00 | |
| Copper | 0.473 | 0.0300 | 0.00898 | 1.00 | |
| Lead | 0.0974 | 0.0300 | 0.0135 | 1.00 | B |
| Zinc | 2.29 | 0.500 | 0.0736 | 1.00 | B |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 09/26/14
Work Order: 14-09-2205
Preparation: EPA 3005A Filt.
Method: EPA 1640
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|---------|------------|---------------|--------------------|-------------|
| Method Blank | 099-15-823-106 | N/A | Aqueous | ICP/MS 05 | 09/28/14 | 09/28/14 15:54 | 140928L01F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0111 | 0.0300 | 0.00567 | 1.00 | J |
| Chromium | ND | 0.500 | 0.164 | 1.00 | |
| Copper | ND | 0.0300 | 0.00898 | 1.00 | |
| Lead | 0.0176 | 0.0300 | 0.0135 | 1.00 | J |
| Zinc | 0.213 | 0.500 | 0.0736 | 1.00 | J |


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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

| | | |
|------------------------------|----------------|------------|
| ANCHOR QEA, LLC | Date Received: | 09/26/14 |
| 27201 Puerta Real, Suite 350 | Work Order: | 14-09-2205 |
| Mission Viejo, CA 92691-8306 | Preparation: | EPA 3510C |
| | Method: | EPA 8081A |
| | Units: | ug/L |

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| LE-RW-22-G-S-20140926 | 14-09-2205-1-E | 09/26/14 09:57 | Sea Water | GC 44 | 10/01/14 | 10/04/14 10:47 | 141001L11 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------------------------|----------|----------------|------------|------|------------|
| 2,4'-DDD | ND | 0.0020 | 0.00058 | 1.00 | |
| 2,4'-DDE | 0.0021 | 0.0020 | 0.00049 | 1.00 | |
| 2,4'-DDT | ND | 0.0020 | 0.00069 | 1.00 | |
| 4,4'-DDD | ND | 0.0020 | 0.00055 | 1.00 | |
| 4,4'-DDE | ND | 0.0020 | 0.00048 | 1.00 | |
| 4,4'-DDT | ND | 0.0020 | 0.00055 | 1.00 | |
| Alpha Chlordane | ND | 0.0020 | 0.00049 | 1.00 | |
| Cis-nonachlor | ND | 0.0020 | 0.00050 | 1.00 | |
| Dieldrin | ND | 0.0020 | 0.00055 | 1.00 | |
| Gamma Chlordane | ND | 0.0020 | 0.00049 | 1.00 | |
| Oxychlordane | ND | 0.0020 | 0.00063 | 1.00 | |
| Toxaphene | ND | 0.025 | 0.0082 | 1.00 | |
| Trans-nonachlor | ND | 0.0020 | 0.00056 | 1.00 | |
| Surrogate | Rec. (%) | Control Limits | Qualifiers | | |
| Decachlorobiphenyl | 83 | 50-150 | | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 95 | 50-150 | | | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 09/26/14
Work Order: 14-09-2205
Preparation: EPA 3510C
Method: EPA 8081A
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

Page 2 of 7

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| LE-RW-21-G-S-20140926 | 14-09-2205-4-E | 09/26/14 10:37 | Sea Water | GC 44 | 10/01/14 | 10/04/14 11:01 | 141001L11 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------------------------|----------|----------------|------------|------|------------|
| 2,4'-DDD | ND | 0.0020 | 0.00058 | 1.00 | |
| 2,4'-DDE | 0.0021 | 0.0020 | 0.00048 | 1.00 | |
| 2,4'-DDT | ND | 0.0020 | 0.00068 | 1.00 | |
| 4,4'-DDD | ND | 0.0020 | 0.00054 | 1.00 | |
| 4,4'-DDE | ND | 0.0020 | 0.00047 | 1.00 | |
| 4,4'-DDT | ND | 0.0020 | 0.00055 | 1.00 | |
| Alpha Chlordane | ND | 0.0020 | 0.00049 | 1.00 | |
| Cis-nonachlor | ND | 0.0020 | 0.00050 | 1.00 | |
| Dieldrin | ND | 0.0020 | 0.00054 | 1.00 | |
| Gamma Chlordane | ND | 0.0020 | 0.00048 | 1.00 | |
| Oxychlordane | ND | 0.0020 | 0.00062 | 1.00 | |
| Toxaphene | ND | 0.025 | 0.0082 | 1.00 | |
| Trans-nonachlor | ND | 0.0020 | 0.00055 | 1.00 | |
| Surrogate | Rec. (%) | Control Limits | Qualifiers | | |
| Decachlorobiphenyl | 76 | 50-150 | | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 85 | 50-150 | | | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 09/26/14
Work Order: 14-09-2205
Preparation: EPA 3510C
Method: EPA 8081A
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

Page 3 of 7

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| SP-RW-18-G-S-20140926 | 14-09-2205-7-E | 09/26/14 13:30 | Sea Water | GC 44 | 10/01/14 | 10/04/14 11:16 | 141001L11 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------------------------|-----------------|-----------------------|-------------------|------|------------|
| 2,4'-DDD | ND | 0.0020 | 0.00058 | 1.00 | |
| 2,4'-DDE | 0.0028 | 0.0020 | 0.00048 | 1.00 | |
| 2,4'-DDT | ND | 0.0020 | 0.00068 | 1.00 | |
| 4,4'-DDD | ND | 0.0020 | 0.00054 | 1.00 | |
| 4,4'-DDE | ND | 0.0020 | 0.00047 | 1.00 | |
| 4,4'-DDT | ND | 0.0020 | 0.00055 | 1.00 | |
| Alpha Chlordane | ND | 0.0020 | 0.00049 | 1.00 | |
| Cis-nonachlor | ND | 0.0020 | 0.00050 | 1.00 | |
| Dieldrin | ND | 0.0020 | 0.00054 | 1.00 | |
| Gamma Chlordane | ND | 0.0020 | 0.00048 | 1.00 | |
| Oxychlordane | ND | 0.0020 | 0.00062 | 1.00 | |
| Toxaphene | ND | 0.025 | 0.0082 | 1.00 | |
| Trans-nonachlor | ND | 0.0020 | 0.00055 | 1.00 | |
| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> | | |
| Decachlorobiphenyl | 72 | 50-150 | | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 83 | 50-150 | | | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 09/26/14
Work Order: 14-09-2205
Preparation: EPA 3510C
Method: EPA 8081A
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

Page 4 of 7

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| SP-RW-19-G-S-20140926 | 14-09-2205-10-E | 09/26/14 14:25 | Sea Water | GC 44 | 10/01/14 | 10/04/14 11:31 | 141001L11 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------------------------|----------|----------------|------------|------|------------|
| 2,4'-DDD | ND | 0.0020 | 0.00058 | 1.00 | |
| 2,4'-DDE | 0.0025 | 0.0020 | 0.00049 | 1.00 | |
| 2,4'-DDT | ND | 0.0020 | 0.00069 | 1.00 | |
| 4,4'-DDD | ND | 0.0020 | 0.00055 | 1.00 | |
| 4,4'-DDE | ND | 0.0020 | 0.00048 | 1.00 | |
| 4,4'-DDT | ND | 0.0020 | 0.00055 | 1.00 | |
| Alpha Chlordane | ND | 0.0020 | 0.00049 | 1.00 | |
| Cis-nonachlor | ND | 0.0020 | 0.00050 | 1.00 | |
| Dieldrin | ND | 0.0020 | 0.00055 | 1.00 | |
| Gamma Chlordane | ND | 0.0020 | 0.00049 | 1.00 | |
| Oxychlordane | ND | 0.0020 | 0.00063 | 1.00 | |
| Toxaphene | ND | 0.025 | 0.0082 | 1.00 | |
| Trans-nonachlor | 0.00065 | 0.0020 | 0.00056 | 1.00 | J |
| Surrogate | Rec. (%) | Control Limits | Qualifiers | | |
| Decachlorobiphenyl | 89 | 50-150 | | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 98 | 50-150 | | | |

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 09/26/14
Work Order: 14-09-2205
Preparation: EPA 3510C
Method: EPA 8081A
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| SP-RW-20-G-S-20140926 | 14-09-2205-13-E | 09/26/14 15:25 | Sea Water | GC 44 | 10/01/14 | 10/04/14 11:45 | 141001L11 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------------------------|----------|----------------|------------|------|------------|
| 2,4'-DDD | ND | 0.0020 | 0.00058 | 1.00 | |
| 2,4'-DDE | 0.0027 | 0.0020 | 0.00049 | 1.00 | |
| 2,4'-DDT | ND | 0.0020 | 0.00069 | 1.00 | |
| 4,4'-DDD | ND | 0.0020 | 0.00055 | 1.00 | |
| 4,4'-DDE | ND | 0.0020 | 0.00048 | 1.00 | |
| 4,4'-DDT | ND | 0.0020 | 0.00055 | 1.00 | |
| Alpha Chlordane | ND | 0.0020 | 0.00049 | 1.00 | |
| Cis-nonachlor | ND | 0.0020 | 0.00050 | 1.00 | |
| Dieldrin | ND | 0.0020 | 0.00055 | 1.00 | |
| Gamma Chlordane | ND | 0.0020 | 0.00049 | 1.00 | |
| Oxychlordane | ND | 0.0020 | 0.00063 | 1.00 | |
| Toxaphene | ND | 0.025 | 0.0082 | 1.00 | |
| Trans-nonachlor | ND | 0.0020 | 0.00056 | 1.00 | |
| Surrogate | Rec. (%) | Control Limits | Qualifiers | | |
| Decachlorobiphenyl | 84 | 50-150 | | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 94 | 50-150 | | | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 09/26/14
 Work Order: 14-09-2205
 Preparation: EPA 3510C
 Method: EPA 8081A
 Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OB-RW-17-G-S-20140926 | 14-09-2205-16-E | 09/26/14 16:20 | Sea Water | GC 44 | 10/01/14 | 10/04/14 11:59 | 141001L11 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------------------------|----------|----------------|------------|------|------------|
| 2,4'-DDD | ND | 0.0020 | 0.00058 | 1.00 | |
| 2,4'-DDE | 0.0037 | 0.0020 | 0.00049 | 1.00 | |
| 2,4'-DDT | ND | 0.0020 | 0.00069 | 1.00 | |
| 4,4'-DDD | ND | 0.0020 | 0.00055 | 1.00 | |
| 4,4'-DDE | ND | 0.0020 | 0.00048 | 1.00 | |
| 4,4'-DDT | ND | 0.0020 | 0.00055 | 1.00 | |
| Alpha Chlordane | ND | 0.0020 | 0.00049 | 1.00 | |
| Cis-nonachlor | ND | 0.0020 | 0.00050 | 1.00 | |
| Dieldrin | ND | 0.0020 | 0.00055 | 1.00 | |
| Gamma Chlordane | ND | 0.0020 | 0.00049 | 1.00 | |
| Oxychlordane | ND | 0.0020 | 0.00063 | 1.00 | |
| Toxaphene | ND | 0.025 | 0.0082 | 1.00 | |
| Trans-nonachlor | ND | 0.0020 | 0.00056 | 1.00 | |
| Surrogate | Rec. (%) | Control Limits | Qualifiers | | |
| Decachlorobiphenyl | 83 | 50-150 | | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 92 | 50-150 | | | |



 Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 09/26/14
 Work Order: 14-09-2205
 Preparation: EPA 3510C
 Method: EPA 8081A
 Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|---------|------------|---------------|--------------------|-------------|
| Method Blank | 099-16-036-9 | N/A | Aqueous | GC 44 | 10/01/14 | 10/04/14 10:04 | 141001L11 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------------------------|----------|----------------|------------|------|------------|
| 2,4'-DDD | ND | 0.0020 | 0.00058 | 1.00 | |
| 2,4'-DDE | ND | 0.0020 | 0.00049 | 1.00 | |
| 2,4'-DDT | ND | 0.0020 | 0.00069 | 1.00 | |
| 4,4'-DDD | ND | 0.0020 | 0.00055 | 1.00 | |
| 4,4'-DDE | ND | 0.0020 | 0.00048 | 1.00 | |
| 4,4'-DDT | ND | 0.0020 | 0.00055 | 1.00 | |
| Alpha Chlordane | ND | 0.0020 | 0.00049 | 1.00 | |
| Cis-nonachlor | ND | 0.0020 | 0.00050 | 1.00 | |
| Dieldrin | ND | 0.0020 | 0.00055 | 1.00 | |
| Gamma Chlordane | ND | 0.0020 | 0.00049 | 1.00 | |
| Oxychlordane | ND | 0.0020 | 0.00063 | 1.00 | |
| Toxaphene | ND | 0.025 | 0.0082 | 1.00 | |
| Trans-nonachlor | ND | 0.0020 | 0.00056 | 1.00 | |
| Surrogate | Rec. (%) | Control Limits | Qualifiers | | |
| Decachlorobiphenyl | 86 | 50-150 | | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 85 | 50-150 | | | |



 Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 09/26/14
Work Order: 14-09-2205
Preparation: EPA 3510C
Method: EPA 8270C SIM PCB Congeners
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

Page 1 of 14

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| LE-RW-22-G-S-20140926 | 14-09-2205-1-D | 09/26/14 09:57 | Sea Water | GC/MS HHH | 09/30/14 | 10/03/14 14:33 | 140930L13A |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------|--------|--------|---------|------|------------|
| PCB018 | ND | 0.0019 | 0.00040 | 1.00 | |
| PCB028 | ND | 0.0019 | 0.00063 | 1.00 | |
| PCB037 | ND | 0.0019 | 0.00046 | 1.00 | |
| PCB044 | ND | 0.0019 | 0.00074 | 1.00 | |
| PCB049 | ND | 0.0019 | 0.00074 | 1.00 | |
| PCB052 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB066 | ND | 0.0019 | 0.00055 | 1.00 | |
| PCB070 | ND | 0.0019 | 0.00036 | 1.00 | |
| PCB074 | ND | 0.0019 | 0.00041 | 1.00 | |
| PCB077 | ND | 0.0019 | 0.00062 | 1.00 | |
| PCB081 | ND | 0.0019 | 0.00046 | 1.00 | |
| PCB087 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB099 | ND | 0.0019 | 0.00058 | 1.00 | |
| PCB101 | ND | 0.0019 | 0.00055 | 1.00 | |
| PCB105 | ND | 0.0019 | 0.00036 | 1.00 | |
| PCB110 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB114 | ND | 0.0019 | 0.00042 | 1.00 | |
| PCB118 | ND | 0.0019 | 0.00047 | 1.00 | |
| PCB119 | ND | 0.0019 | 0.00041 | 1.00 | |
| PCB123 | ND | 0.0019 | 0.00073 | 1.00 | |
| PCB126 | ND | 0.0019 | 0.00052 | 1.00 | |
| PCB128 | ND | 0.0019 | 0.00067 | 1.00 | |
| PCB132/153 | ND | 0.0038 | 0.0011 | 1.00 | |
| PCB138/158 | ND | 0.0038 | 0.0011 | 1.00 | |
| PCB149 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB151 | ND | 0.0019 | 0.00058 | 1.00 | |
| PCB156 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB157 | ND | 0.0019 | 0.00072 | 1.00 | |
| PCB167 | ND | 0.0019 | 0.00083 | 1.00 | |
| PCB168 | ND | 0.0019 | 0.00031 | 1.00 | |
| PCB169 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB170 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB177 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB180 | ND | 0.0019 | 0.00068 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 09/26/14
 Work Order: 14-09-2205
 Preparation: EPA 3510C
 Method: EPA 8270C SIM PCB Congeners
 Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|-----------------|-----------------------|-------------------|-----------|-------------------|
| PCB183 | ND | 0.0019 | 0.00051 | 1.00 | |
| PCB187 | ND | 0.0019 | 0.00053 | 1.00 | |
| PCB189 | ND | 0.0019 | 0.00038 | 1.00 | |
| PCB194 | ND | 0.0019 | 0.00040 | 1.00 | |
| PCB195 | ND | 0.0019 | 0.00034 | 1.00 | |
| PCB201 | ND | 0.0019 | 0.00069 | 1.00 | |
| PCB206 | ND | 0.0019 | 0.00024 | 1.00 | |
| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> | | |
| 2-Fluorobiphenyl | 79 | 50-150 | | | |
| p-Terphenyl-d14 | 105 | 50-150 | | | |

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 09/26/14
Work Order: 14-09-2205
Preparation: EPA 3510C
Method: EPA 8270C SIM PCB Congeners
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| LE-RW-21-G-S-20140926 | 14-09-2205-4-D | 09/26/14 10:37 | Sea Water | GC/MS HHH | 09/30/14 | 10/03/14 15:00 | 140930L13A |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------|--------|--------|---------|------|------------|
| PCB018 | ND | 0.0019 | 0.00040 | 1.00 | |
| PCB028 | ND | 0.0019 | 0.00064 | 1.00 | |
| PCB037 | ND | 0.0019 | 0.00046 | 1.00 | |
| PCB044 | ND | 0.0019 | 0.00075 | 1.00 | |
| PCB049 | ND | 0.0019 | 0.00075 | 1.00 | |
| PCB052 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB066 | ND | 0.0019 | 0.00055 | 1.00 | |
| PCB070 | ND | 0.0019 | 0.00037 | 1.00 | |
| PCB074 | ND | 0.0019 | 0.00041 | 1.00 | |
| PCB077 | ND | 0.0019 | 0.00063 | 1.00 | |
| PCB081 | ND | 0.0019 | 0.00047 | 1.00 | |
| PCB087 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB099 | ND | 0.0019 | 0.00058 | 1.00 | |
| PCB101 | ND | 0.0019 | 0.00056 | 1.00 | |
| PCB105 | ND | 0.0019 | 0.00036 | 1.00 | |
| PCB110 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB114 | ND | 0.0019 | 0.00042 | 1.00 | |
| PCB118 | ND | 0.0019 | 0.00047 | 1.00 | |
| PCB119 | ND | 0.0019 | 0.00041 | 1.00 | |
| PCB123 | ND | 0.0019 | 0.00074 | 1.00 | |
| PCB126 | ND | 0.0019 | 0.00052 | 1.00 | |
| PCB128 | ND | 0.0019 | 0.00068 | 1.00 | |
| PCB132/153 | ND | 0.0038 | 0.0011 | 1.00 | |
| PCB138/158 | ND | 0.0038 | 0.0011 | 1.00 | |
| PCB149 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB151 | ND | 0.0019 | 0.00059 | 1.00 | |
| PCB156 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB157 | ND | 0.0019 | 0.00072 | 1.00 | |
| PCB167 | ND | 0.0019 | 0.00083 | 1.00 | |
| PCB168 | ND | 0.0019 | 0.00032 | 1.00 | |
| PCB169 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB170 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB177 | ND | 0.0019 | 0.00055 | 1.00 | |
| PCB180 | ND | 0.0019 | 0.00069 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 09/26/14
 Work Order: 14-09-2205
 Preparation: EPA 3510C
 Method: EPA 8270C SIM PCB Congeners
 Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|-----------------|-----------------------|-------------------|-----------|-------------------|
| PCB183 | ND | 0.0019 | 0.00051 | 1.00 | |
| PCB187 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB189 | ND | 0.0019 | 0.00038 | 1.00 | |
| PCB194 | ND | 0.0019 | 0.00040 | 1.00 | |
| PCB195 | ND | 0.0019 | 0.00034 | 1.00 | |
| PCB201 | ND | 0.0019 | 0.00070 | 1.00 | |
| PCB206 | ND | 0.0019 | 0.00025 | 1.00 | |
| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> | | |
| 2-Fluorobiphenyl | 111 | 50-150 | | | |
| p-Terphenyl-d14 | 149 | 50-150 | | | |

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 09/26/14
Work Order: 14-09-2205
Preparation: EPA 3510C
Method: EPA 8270C SIM PCB Congeners
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| SP-RW-18-G-S-20140926 | 14-09-2205-7-D | 09/26/14 13:30 | Sea Water | GC/MS HHH | 09/30/14 | 10/03/14 15:28 | 140930L13A |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------|--------|--------|---------|------|------------|
| PCB018 | ND | 0.0019 | 0.00040 | 1.00 | |
| PCB028 | ND | 0.0019 | 0.00063 | 1.00 | |
| PCB037 | ND | 0.0019 | 0.00046 | 1.00 | |
| PCB044 | ND | 0.0019 | 0.00074 | 1.00 | |
| PCB049 | ND | 0.0019 | 0.00074 | 1.00 | |
| PCB052 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB066 | ND | 0.0019 | 0.00055 | 1.00 | |
| PCB070 | ND | 0.0019 | 0.00036 | 1.00 | |
| PCB074 | ND | 0.0019 | 0.00041 | 1.00 | |
| PCB077 | ND | 0.0019 | 0.00062 | 1.00 | |
| PCB081 | ND | 0.0019 | 0.00046 | 1.00 | |
| PCB087 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB099 | ND | 0.0019 | 0.00058 | 1.00 | |
| PCB101 | ND | 0.0019 | 0.00055 | 1.00 | |
| PCB105 | ND | 0.0019 | 0.00036 | 1.00 | |
| PCB110 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB114 | ND | 0.0019 | 0.00042 | 1.00 | |
| PCB118 | ND | 0.0019 | 0.00047 | 1.00 | |
| PCB119 | ND | 0.0019 | 0.00041 | 1.00 | |
| PCB123 | ND | 0.0019 | 0.00073 | 1.00 | |
| PCB126 | ND | 0.0019 | 0.00052 | 1.00 | |
| PCB128 | ND | 0.0019 | 0.00067 | 1.00 | |
| PCB132/153 | ND | 0.0038 | 0.0011 | 1.00 | |
| PCB138/158 | ND | 0.0038 | 0.0011 | 1.00 | |
| PCB149 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB151 | ND | 0.0019 | 0.00058 | 1.00 | |
| PCB156 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB157 | ND | 0.0019 | 0.00072 | 1.00 | |
| PCB167 | ND | 0.0019 | 0.00083 | 1.00 | |
| PCB168 | ND | 0.0019 | 0.00031 | 1.00 | |
| PCB169 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB170 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB177 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB180 | ND | 0.0019 | 0.00068 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 09/26/14
 Work Order: 14-09-2205
 Preparation: EPA 3510C
 Method: EPA 8270C SIM PCB Congeners
 Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|-----------------|-----------------------|-------------------|-----------|-------------------|
| PCB183 | ND | 0.0019 | 0.00051 | 1.00 | |
| PCB187 | ND | 0.0019 | 0.00053 | 1.00 | |
| PCB189 | ND | 0.0019 | 0.00038 | 1.00 | |
| PCB194 | ND | 0.0019 | 0.00040 | 1.00 | |
| PCB195 | ND | 0.0019 | 0.00034 | 1.00 | |
| PCB201 | ND | 0.0019 | 0.00069 | 1.00 | |
| PCB206 | ND | 0.0019 | 0.00024 | 1.00 | |
| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> | | |
| 2-Fluorobiphenyl | 98 | 50-150 | | | |
| p-Terphenyl-d14 | 110 | 50-150 | | | |

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 09/26/14
Work Order: 14-09-2205
Preparation: EPA 3510C
Method: EPA 8270C SIM PCB Congeners
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| SP-RW-19-G-S-20140926 | 14-09-2205-10-D | 09/26/14 14:25 | Sea Water | GC/MS HHH | 09/30/14 | 10/03/14 15:55 | 140930L13A |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------|--------|--------|---------|------|------------|
| PCB018 | ND | 0.0019 | 0.00040 | 1.00 | |
| PCB028 | ND | 0.0019 | 0.00063 | 1.00 | |
| PCB037 | ND | 0.0019 | 0.00046 | 1.00 | |
| PCB044 | ND | 0.0019 | 0.00074 | 1.00 | |
| PCB049 | ND | 0.0019 | 0.00074 | 1.00 | |
| PCB052 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB066 | ND | 0.0019 | 0.00055 | 1.00 | |
| PCB070 | ND | 0.0019 | 0.00036 | 1.00 | |
| PCB074 | ND | 0.0019 | 0.00041 | 1.00 | |
| PCB077 | ND | 0.0019 | 0.00062 | 1.00 | |
| PCB081 | ND | 0.0019 | 0.00046 | 1.00 | |
| PCB087 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB099 | ND | 0.0019 | 0.00058 | 1.00 | |
| PCB101 | ND | 0.0019 | 0.00055 | 1.00 | |
| PCB105 | ND | 0.0019 | 0.00036 | 1.00 | |
| PCB110 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB114 | ND | 0.0019 | 0.00042 | 1.00 | |
| PCB118 | ND | 0.0019 | 0.00047 | 1.00 | |
| PCB119 | ND | 0.0019 | 0.00041 | 1.00 | |
| PCB123 | ND | 0.0019 | 0.00073 | 1.00 | |
| PCB126 | ND | 0.0019 | 0.00052 | 1.00 | |
| PCB128 | ND | 0.0019 | 0.00067 | 1.00 | |
| PCB132/153 | ND | 0.0038 | 0.0011 | 1.00 | |
| PCB138/158 | ND | 0.0038 | 0.0011 | 1.00 | |
| PCB149 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB151 | ND | 0.0019 | 0.00058 | 1.00 | |
| PCB156 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB157 | ND | 0.0019 | 0.00072 | 1.00 | |
| PCB167 | ND | 0.0019 | 0.00083 | 1.00 | |
| PCB168 | ND | 0.0019 | 0.00031 | 1.00 | |
| PCB169 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB170 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB177 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB180 | ND | 0.0019 | 0.00068 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 09/26/14
 Work Order: 14-09-2205
 Preparation: EPA 3510C
 Method: EPA 8270C SIM PCB Congeners
 Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|-----------------|-----------------------|-------------------|-----------|-------------------|
| PCB183 | ND | 0.0019 | 0.00051 | 1.00 | |
| PCB187 | ND | 0.0019 | 0.00053 | 1.00 | |
| PCB189 | ND | 0.0019 | 0.00038 | 1.00 | |
| PCB194 | ND | 0.0019 | 0.00040 | 1.00 | |
| PCB195 | ND | 0.0019 | 0.00034 | 1.00 | |
| PCB201 | ND | 0.0019 | 0.00069 | 1.00 | |
| PCB206 | ND | 0.0019 | 0.00024 | 1.00 | |
| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> | | |
| 2-Fluorobiphenyl | 108 | 50-150 | | | |
| p-Terphenyl-d14 | 114 | 50-150 | | | |

Return to Contents 

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 09/26/14
Work Order: 14-09-2205
Preparation: EPA 3510C
Method: EPA 8270C SIM PCB Congeners
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| SP-RW-20-G-S-20140926 | 14-09-2205-13-D | 09/26/14 15:25 | Sea Water | GC/MS HHH | 09/30/14 | 10/03/14 16:22 | 140930L13A |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------|--------|--------|---------|------|------------|
| PCB018 | ND | 0.0019 | 0.00040 | 1.00 | |
| PCB028 | ND | 0.0019 | 0.00063 | 1.00 | |
| PCB037 | ND | 0.0019 | 0.00046 | 1.00 | |
| PCB044 | ND | 0.0019 | 0.00074 | 1.00 | |
| PCB049 | ND | 0.0019 | 0.00074 | 1.00 | |
| PCB052 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB066 | ND | 0.0019 | 0.00055 | 1.00 | |
| PCB070 | ND | 0.0019 | 0.00036 | 1.00 | |
| PCB074 | ND | 0.0019 | 0.00041 | 1.00 | |
| PCB077 | ND | 0.0019 | 0.00062 | 1.00 | |
| PCB081 | ND | 0.0019 | 0.00046 | 1.00 | |
| PCB087 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB099 | ND | 0.0019 | 0.00058 | 1.00 | |
| PCB101 | ND | 0.0019 | 0.00055 | 1.00 | |
| PCB105 | ND | 0.0019 | 0.00036 | 1.00 | |
| PCB110 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB114 | ND | 0.0019 | 0.00042 | 1.00 | |
| PCB118 | ND | 0.0019 | 0.00047 | 1.00 | |
| PCB119 | ND | 0.0019 | 0.00041 | 1.00 | |
| PCB123 | ND | 0.0019 | 0.00073 | 1.00 | |
| PCB126 | ND | 0.0019 | 0.00052 | 1.00 | |
| PCB128 | ND | 0.0019 | 0.00067 | 1.00 | |
| PCB132/153 | ND | 0.0038 | 0.0011 | 1.00 | |
| PCB138/158 | ND | 0.0038 | 0.0011 | 1.00 | |
| PCB149 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB151 | ND | 0.0019 | 0.00058 | 1.00 | |
| PCB156 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB157 | ND | 0.0019 | 0.00072 | 1.00 | |
| PCB167 | ND | 0.0019 | 0.00083 | 1.00 | |
| PCB168 | ND | 0.0019 | 0.00031 | 1.00 | |
| PCB169 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB170 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB177 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB180 | ND | 0.0019 | 0.00068 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 09/26/14
 Work Order: 14-09-2205
 Preparation: EPA 3510C
 Method: EPA 8270C SIM PCB Congeners
 Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|-----------------|-----------------------|-------------------|-----------|-------------------|
| PCB183 | ND | 0.0019 | 0.00051 | 1.00 | |
| PCB187 | ND | 0.0019 | 0.00053 | 1.00 | |
| PCB189 | ND | 0.0019 | 0.00038 | 1.00 | |
| PCB194 | ND | 0.0019 | 0.00040 | 1.00 | |
| PCB195 | ND | 0.0019 | 0.00034 | 1.00 | |
| PCB201 | ND | 0.0019 | 0.00069 | 1.00 | |
| PCB206 | ND | 0.0019 | 0.00024 | 1.00 | |
| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> | | |
| 2-Fluorobiphenyl | 108 | 50-150 | | | |
| p-Terphenyl-d14 | 122 | 50-150 | | | |

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 09/26/14
Work Order: 14-09-2205
Preparation: EPA 3510C
Method: EPA 8270C SIM PCB Congeners
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OB-RW-17-G-S-20140926 | 14-09-2205-16-D | 09/26/14 16:20 | Sea Water | GC/MS HHH | 09/30/14 | 10/03/14 16:49 | 140930L13A |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------|--------|--------|---------|------|------------|
| PCB018 | ND | 0.0019 | 0.00040 | 1.00 | |
| PCB028 | ND | 0.0019 | 0.00063 | 1.00 | |
| PCB037 | ND | 0.0019 | 0.00046 | 1.00 | |
| PCB044 | ND | 0.0019 | 0.00074 | 1.00 | |
| PCB049 | ND | 0.0019 | 0.00074 | 1.00 | |
| PCB052 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB066 | ND | 0.0019 | 0.00055 | 1.00 | |
| PCB070 | ND | 0.0019 | 0.00036 | 1.00 | |
| PCB074 | ND | 0.0019 | 0.00041 | 1.00 | |
| PCB077 | ND | 0.0019 | 0.00062 | 1.00 | |
| PCB081 | ND | 0.0019 | 0.00046 | 1.00 | |
| PCB087 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB099 | ND | 0.0019 | 0.00058 | 1.00 | |
| PCB101 | ND | 0.0019 | 0.00055 | 1.00 | |
| PCB105 | ND | 0.0019 | 0.00036 | 1.00 | |
| PCB110 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB114 | ND | 0.0019 | 0.00042 | 1.00 | |
| PCB118 | ND | 0.0019 | 0.00047 | 1.00 | |
| PCB119 | ND | 0.0019 | 0.00041 | 1.00 | |
| PCB123 | ND | 0.0019 | 0.00073 | 1.00 | |
| PCB126 | ND | 0.0019 | 0.00052 | 1.00 | |
| PCB128 | ND | 0.0019 | 0.00067 | 1.00 | |
| PCB132/153 | ND | 0.0038 | 0.0011 | 1.00 | |
| PCB138/158 | ND | 0.0038 | 0.0011 | 1.00 | |
| PCB149 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB151 | ND | 0.0019 | 0.00058 | 1.00 | |
| PCB156 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB157 | ND | 0.0019 | 0.00072 | 1.00 | |
| PCB167 | ND | 0.0019 | 0.00083 | 1.00 | |
| PCB168 | ND | 0.0019 | 0.00031 | 1.00 | |
| PCB169 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB170 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB177 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB180 | ND | 0.0019 | 0.00068 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 09/26/14
 Work Order: 14-09-2205
 Preparation: EPA 3510C
 Method: EPA 8270C SIM PCB Congeners
 Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|-----------------|-----------------------|-------------------|-----------|-------------------|
| PCB183 | ND | 0.0019 | 0.00051 | 1.00 | |
| PCB187 | ND | 0.0019 | 0.00053 | 1.00 | |
| PCB189 | ND | 0.0019 | 0.00038 | 1.00 | |
| PCB194 | ND | 0.0019 | 0.00040 | 1.00 | |
| PCB195 | ND | 0.0019 | 0.00034 | 1.00 | |
| PCB201 | ND | 0.0019 | 0.00069 | 1.00 | |
| PCB206 | ND | 0.0019 | 0.00024 | 1.00 | |
| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> | | |
| 2-Fluorobiphenyl | 96 | 50-150 | | | |
| p-Terphenyl-d14 | 110 | 50-150 | | | |

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

| | | |
|------------------------------|----------------|-----------------------------|
| ANCHOR QEA, LLC | Date Received: | 09/26/14 |
| 27201 Puerta Real, Suite 350 | Work Order: | 14-09-2205 |
| Mission Viejo, CA 92691-8306 | Preparation: | EPA 3510C |
| | Method: | EPA 8270C SIM PCB Congeners |
| | Units: | ug/L |

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|---------|------------|---------------|--------------------|-------------|
| Method Blank | 099-16-414-8 | N/A | Aqueous | GC/MS HHH | 09/30/14 | 10/03/14 13:39 | 140930L13A |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------|--------|--------|---------|------|------------|
| PCB018 | ND | 0.0020 | 0.00042 | 1.00 | |
| PCB028 | ND | 0.0020 | 0.00066 | 1.00 | |
| PCB037 | ND | 0.0020 | 0.00048 | 1.00 | |
| PCB044 | ND | 0.0020 | 0.00078 | 1.00 | |
| PCB049 | ND | 0.0020 | 0.00078 | 1.00 | |
| PCB052 | ND | 0.0020 | 0.00051 | 1.00 | |
| PCB066 | ND | 0.0020 | 0.00057 | 1.00 | |
| PCB070 | ND | 0.0020 | 0.00038 | 1.00 | |
| PCB074 | ND | 0.0020 | 0.00043 | 1.00 | |
| PCB077 | ND | 0.0020 | 0.00065 | 1.00 | |
| PCB081 | ND | 0.0020 | 0.00048 | 1.00 | |
| PCB087 | ND | 0.0020 | 0.00050 | 1.00 | |
| PCB099 | ND | 0.0020 | 0.00060 | 1.00 | |
| PCB101 | ND | 0.0020 | 0.00058 | 1.00 | |
| PCB105 | ND | 0.0020 | 0.00038 | 1.00 | |
| PCB110 | ND | 0.0020 | 0.00050 | 1.00 | |
| PCB114 | ND | 0.0020 | 0.00044 | 1.00 | |
| PCB118 | ND | 0.0020 | 0.00049 | 1.00 | |
| PCB119 | ND | 0.0020 | 0.00043 | 1.00 | |
| PCB123 | ND | 0.0020 | 0.00077 | 1.00 | |
| PCB126 | ND | 0.0020 | 0.00055 | 1.00 | |
| PCB128 | ND | 0.0020 | 0.00070 | 1.00 | |
| PCB132/153 | ND | 0.0040 | 0.0012 | 1.00 | |
| PCB138/158 | ND | 0.0040 | 0.0011 | 1.00 | |
| PCB149 | ND | 0.0020 | 0.00050 | 1.00 | |
| PCB151 | ND | 0.0020 | 0.00061 | 1.00 | |
| PCB156 | ND | 0.0020 | 0.00051 | 1.00 | |
| PCB157 | ND | 0.0020 | 0.00075 | 1.00 | |
| PCB167 | ND | 0.0020 | 0.00087 | 1.00 | |
| PCB168 | ND | 0.0020 | 0.00033 | 1.00 | |
| PCB169 | ND | 0.0020 | 0.00056 | 1.00 | |
| PCB170 | ND | 0.0020 | 0.00056 | 1.00 | |
| PCB177 | ND | 0.0020 | 0.00057 | 1.00 | |
| PCB180 | ND | 0.0020 | 0.00072 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 09/26/14
 Work Order: 14-09-2205
 Preparation: EPA 3510C
 Method: EPA 8270C SIM PCB Congeners
 Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|-----------------|-----------------------|-------------------|-----------|-------------------|
| PCB183 | ND | 0.0020 | 0.00053 | 1.00 | |
| PCB187 | ND | 0.0020 | 0.00056 | 1.00 | |
| PCB189 | ND | 0.0020 | 0.00040 | 1.00 | |
| PCB194 | ND | 0.0020 | 0.00042 | 1.00 | |
| PCB195 | ND | 0.0020 | 0.00035 | 1.00 | |
| PCB201 | ND | 0.0020 | 0.00072 | 1.00 | |
| PCB206 | ND | 0.0020 | 0.00026 | 1.00 | |
| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> | | |
| 2-Fluorobiphenyl | 82 | 50-150 | | | |
| p-Terphenyl-d14 | 99 | 50-150 | | | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Quality Control - Spike/Spike Duplicate

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 09/26/14
 Work Order: 14-09-2205
 Preparation: EPA 1631E Total
 Method: EPA 1631E

Project: GWMA - TMDL Compliance Monitoring

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| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | MS/MSD Batch Number |
|---------------------------|------------------------|-----------|------------|---------------|----------------|---------------------|
| OB-RW-17-G-S-20140926 | Sample | Sea Water | Hg/AF 1 | 10/02/14 | 10/02/14 00:00 | 141002S01A |
| OB-RW-17-G-S-20140926 | Matrix Spike | Sea Water | Hg/AF 1 | 10/02/14 | 10/02/14 00:00 | 141002S01A |
| OB-RW-17-G-S-20140926 | Matrix Spike Duplicate | Sea Water | Hg/AF 1 | 10/02/14 | 10/02/14 00:00 | 141002S01A |

| Parameter | Sample Conc. | Spike Added | MS Conc. | MS %Rec. | MSD Conc. | MSD %Rec. | %Rec. CL | RPD | RPD CL | Qualifiers |
|-----------|--------------|-------------|----------|----------|-----------|-----------|----------|-----|--------|------------|
| Mercury | 0.0009462 | 0.02000 | 0.02036 | 97 | 0.02005 | 96 | 71-125 | 2 | 0-24 | |

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RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - Spike/Spike Duplicate

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 09/26/14
Work Order: 14-09-2205
Preparation: T22.11.5.All DI
Method: EPA 1631E

Project: GWMA - TMDL Compliance Monitoring

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| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | MS/MSD Batch Number | | | | |
|---------------------------|------------------------|-------------|------------|---------------|----------------|---------------------|----------|-----|--------|------------|
| 14-10-0007-9 | Sample | Sediment | Hg/AF 1 | 10/02/14 | 10/07/14 00:00 | 141007S01 | | | | |
| 14-10-0007-9 | Matrix Spike | Sediment | Hg/AF 1 | 10/02/14 | 10/07/14 00:00 | 141007S01 | | | | |
| 14-10-0007-9 | Matrix Spike Duplicate | Sediment | Hg/AF 1 | 10/02/14 | 10/07/14 00:00 | 141007S01 | | | | |
| Parameter | Sample Conc. | Spike Added | MS Conc. | MS %Rec. | MSD Conc. | MSD %Rec. | %Rec. CL | RPD | RPD CL | Qualifiers |
| Mercury | 0.01056 | 0.02000 | 0.03299 | 112 | 0.03353 | 115 | 71-125 | 2 | 0-24 | |

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RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - Spike/Spike Duplicate

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 09/26/14
Work Order: 14-09-2205
Preparation: EPA 3005A Total
Method: EPA 1640

Project: GWMA - TMDL Compliance Monitoring

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| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | MS/MSD Batch Number | | | | |
|---------------------------|------------------------|-------------|------------|---------------|----------------|---------------------|----------|-----|--------|------------|
| LE-RW-22-G-S-20140926 | Sample | Sea Water | ICP/MS 05 | 09/28/14 | 09/28/14 19:47 | 140928S01 | | | | |
| LE-RW-22-G-S-20140926 | Matrix Spike | Sea Water | ICP/MS 05 | 09/28/14 | 10/03/14 14:31 | 140928S01 | | | | |
| LE-RW-22-G-S-20140926 | Matrix Spike Duplicate | Sea Water | ICP/MS 05 | 09/28/14 | 10/03/14 14:39 | 140928S01 | | | | |
| Parameter | Sample Conc. | Spike Added | MS Conc. | MS %Rec. | MSD Conc. | MSD %Rec. | %Rec. CL | RPD | RPD CL | Qualifiers |
| Cadmium | 0.05715 | 0.5000 | 0.5601 | 101 | 0.5489 | 98 | 50-150 | 2 | 0-20 | |
| Chromium | ND | 5.000 | 3.739 | 75 | 3.819 | 76 | 50-150 | 2 | 0-20 | |
| Copper | 1.945 | 0.5000 | 2.667 | 144 | 2.636 | 138 | 50-150 | 1 | 0-20 | |
| Lead | 0.4270 | 0.5000 | 0.8820 | 91 | 0.8960 | 94 | 50-150 | 2 | 0-20 | |
| Zinc | 12.17 | 5.000 | 17.55 | 108 | 17.12 | 99 | 50-150 | 3 | 0-20 | |

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RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - Sample Duplicate

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 09/26/14
 Work Order: 14-09-2205
 Preparation: N/A
 Method: SM 2540 D

Project: GWMA - TMDL Compliance Monitoring

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| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | Duplicate Batch Number |
|---------------------------|------------------|-----------|------------|----------------|----------------|------------------------|
| LE-RW-22-G-M-20140926 | Sample | Sea Water | N/A | 10/03/14 00:00 | 10/03/14 17:25 | E1003TSSD3 |
| LE-RW-22-G-M-20140926 | Sample Duplicate | Sea Water | N/A | 10/03/14 00:00 | 10/03/14 17:25 | E1003TSSD3 |

| Parameter | Sample Conc. | DUP Conc. | RPD | RPD CL | Qualifiers |
|-------------------------|--------------|-----------|-----|--------|------------|
| Solids, Total Suspended | 5.200 | 5.400 | 4 | 0-20 | |

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - LCS/LCSD

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 09/26/14
Work Order: 14-09-2205
Preparation: N/A
Method: SM 2540 D

Project: GWMA - TMDL Compliance Monitoring

Page 1 of 7

| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | LCS/LCSD Batch Number | | | |
|---------------------------|-------------|-----------|------------|---------------|----------------|-----------------------|-----|--------|------------|
| 099-09-010-6819 | LCS | Aqueous | N/A | 10/03/14 | 10/03/14 17:25 | E1003TSSL3 | | | |
| 099-09-010-6819 | LCSD | Aqueous | N/A | 10/03/14 | 10/03/14 17:25 | E1003TSSL3 | | | |
| Parameter | Spike Added | LCS Conc. | LCS %Rec. | LCSD Conc. | LCSD %Rec. | %Rec. CL | RPD | RPD CL | Qualifiers |
| Solids, Total Suspended | 100.0 | 88.00 | 88 | 90.00 | 90 | 80-120 | 2 | 0-20 | |

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RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - LCS/LCSD

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 09/26/14
 Work Order: 14-09-2205
 Preparation: EPA 1631E Total
 Method: EPA 1631E

Project: GWMA - TMDL Compliance Monitoring

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| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | LCS/LCSD Batch Number |
|---------------------------|------|---------|------------|---------------|----------------|-----------------------|
| 099-15-224-58 | LCS | Aqueous | Hg/AF 1 | 10/02/14 | 10/02/14 00:00 | 141002L01 |
| 099-15-224-58 | LCSD | Aqueous | Hg/AF 1 | 10/02/14 | 10/02/14 00:00 | 141002L01 |

| Parameter | Spike Added | LCS Conc. | LCS %Rec. | LCSD Conc. | LCSD %Rec. | %Rec. CL | RPD | RPD CL | Qualifiers |
|-----------|-------------|-----------|-----------|------------|------------|----------|-----|--------|------------|
| Mercury | 0.02000 | 0.01979 | 99 | 0.01959 | 98 | 71-125 | 1 | 0-20 | |

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RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - LCS/LCSD

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 09/26/14
 Work Order: 14-09-2205
 Preparation: Filtered
 Method: EPA 1631E

Project: GWMA - TMDL Compliance Monitoring

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| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | LCS/LCSD Batch Number |
|---------------------------|------|---------|------------|---------------|----------------|-----------------------|
| 099-15-226-47 | LCS | Aqueous | Hg/AF 1 | 10/07/14 | 10/07/14 00:00 | 141007L01F |
| 099-15-226-47 | LCSD | Aqueous | Hg/AF 1 | 10/07/14 | 10/07/14 00:00 | 141007L01F |

| Parameter | Spike Added | LCS Conc. | LCS %Rec. | LCSD Conc. | LCSD %Rec. | %Rec. CL | RPD | RPD CL | Qualifiers |
|-----------|-------------|-----------|-----------|------------|------------|----------|-----|--------|------------|
| Mercury | 0.02000 | 0.02176 | 109 | 0.02146 | 107 | 71-125 | 1 | 0-20 | |

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RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - LCS/LCSD

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 09/26/14
Work Order: 14-09-2205
Preparation: EPA 3005A Total
Method: EPA 1640

Project: GWMA - TMDL Compliance Monitoring

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| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | LCS/LCSD Batch Number | | | |
|---------------------------|-------------|-----------|------------|---------------|----------------|-----------------------|-----|--------|------------|
| 099-13-067-446 | LCS | Aqueous | ICP/MS 05 | 09/28/14 | 09/28/14 16:18 | 140928L01 | | | |
| 099-13-067-446 | LCSD | Aqueous | ICP/MS 05 | 09/28/14 | 09/28/14 16:26 | 140928L01 | | | |
| Parameter | Spike Added | LCS Conc. | LCS %Rec. | LCSD Conc. | LCSD %Rec. | %Rec. CL | RPD | RPD CL | Qualifiers |
| Cadmium | 0.5000 | 0.4570 | 91 | 0.4610 | 92 | 70-130 | 1 | 0-20 | |
| Chromium | 5.000 | 4.976 | 100 | 5.438 | 109 | 70-130 | 9 | 0-20 | |
| Copper | 0.5000 | 0.5202 | 104 | 0.5326 | 107 | 70-130 | 2 | 0-20 | |
| Lead | 0.5000 | 0.4527 | 91 | 0.5054 | 101 | 70-130 | 11 | 0-20 | |
| Zinc | 5.000 | 5.293 | 106 | 5.407 | 108 | 70-130 | 2 | 0-20 | |

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RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - LCS/LCSD

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 09/26/14
Work Order: 14-09-2205
Preparation: EPA 3005A Filt.
Method: EPA 1640

Project: GWMA - TMDL Compliance Monitoring

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| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | LCS/LCSD Batch Number | | | |
|---------------------------|-------------|-----------|------------|---------------|----------------|-----------------------|-----|--------|------------|
| 099-15-823-106 | LCS | Aqueous | ICP/MS 05 | 09/28/14 | 09/28/14 16:18 | 140928L01F | | | |
| 099-15-823-106 | LCSD | Aqueous | ICP/MS 05 | 09/28/14 | 09/28/14 16:26 | 140928L01F | | | |
| Parameter | Spike Added | LCS Conc. | LCS %Rec. | LCSD Conc. | LCSD %Rec. | %Rec. CL | RPD | RPD CL | Qualifiers |
| Cadmium | 0.5000 | 0.4570 | 91 | 0.4610 | 92 | 70-130 | 1 | 0-20 | |
| Chromium | 5.000 | 4.976 | 100 | 5.438 | 109 | 70-130 | 9 | 0-20 | |
| Copper | 0.5000 | 0.5202 | 104 | 0.5326 | 107 | 70-130 | 2 | 0-20 | |
| Lead | 0.5000 | 0.4527 | 91 | 0.5054 | 101 | 70-130 | 11 | 0-20 | |
| Zinc | 5.000 | 5.293 | 106 | 5.407 | 108 | 70-130 | 2 | 0-20 | |


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RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - LCS/LCSD

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 09/26/14
Work Order: 14-09-2205
Preparation: EPA 3510C
Method: EPA 8081A

Project: GWMA - TMDL Compliance Monitoring

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| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | LCS/LCSD Batch Number | | | |
|---------------------------|-------------|-----------|------------|---------------|----------------|-----------------------|-----|--------|------------|
| 099-16-036-9 | LCS | Aqueous | GC 44 | 10/01/14 | 10/04/14 10:18 | 141001L11 | | | |
| 099-16-036-9 | LCSD | Aqueous | GC 44 | 10/01/14 | 10/04/14 10:33 | 141001L11 | | | |
| Parameter | Spike Added | LCS Conc. | LCS %Rec. | LCSD Conc. | LCSD %Rec. | %Rec. CL | RPD | RPD CL | Qualifiers |
| 4,4'-DDD | 0.05000 | 0.04686 | 94 | 0.04429 | 89 | 50-150 | 6 | 0-25 | |
| 4,4'-DDE | 0.05000 | 0.04825 | 96 | 0.04696 | 94 | 50-150 | 3 | 0-25 | |
| 4,4'-DDT | 0.05000 | 0.04928 | 99 | 0.04726 | 95 | 50-150 | 4 | 0-25 | |
| Alpha Chlordane | 0.05000 | 0.04563 | 91 | 0.04376 | 88 | 50-150 | 4 | 0-25 | |
| Dieldrin | 0.05000 | 0.04776 | 96 | 0.04543 | 91 | 50-150 | 5 | 0-25 | |
| Gamma Chlordane | 0.05000 | 0.04851 | 97 | 0.04522 | 90 | 50-150 | 7 | 0-25 | |

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RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - LCS/LCSD

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 09/26/14
Work Order: 14-09-2205
Preparation: EPA 3510C
Method: EPA 8270C SIM PCB Congeners

Project: GWMA - TMDL Compliance Monitoring

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| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | LCS/LCSD Batch Number | | | | |
|---------------------------|-------------|-----------|------------|---------------|----------------|-----------------------|--------|-----|--------|------------|
| 099-16-414-8 | LCS | Aqueous | GC/MS HHH | 09/30/14 | 10/03/14 12:46 | 140930L13A | | | | |
| 099-16-414-8 | LCSD | Aqueous | GC/MS HHH | 09/30/14 | 10/03/14 13:12 | 140930L13A | | | | |
| Parameter | Spike Added | LCS Conc. | LCS %Rec. | LCSD Conc. | LCSD %Rec. | %Rec. CL | ME CL | RPD | RPD CL | Qualifiers |
| PCB018 | 0.5000 | 0.4473 | 89 | 0.4462 | 89 | 50-150 | 33-167 | 0 | 0-25 | |
| PCB028 | 0.5000 | 0.4702 | 94 | 0.4644 | 93 | 50-150 | 33-167 | 1 | 0-25 | |
| PCB044 | 0.5000 | 0.4624 | 92 | 0.4580 | 92 | 50-150 | 33-167 | 1 | 0-25 | |
| PCB052 | 0.5000 | 0.4099 | 82 | 0.4060 | 81 | 50-150 | 33-167 | 1 | 0-25 | |
| PCB066 | 0.5000 | 0.5137 | 103 | 0.5028 | 101 | 50-150 | 33-167 | 2 | 0-25 | |
| PCB077 | 0.5000 | 0.5028 | 101 | 0.4970 | 99 | 50-150 | 33-167 | 1 | 0-25 | |
| PCB101 | 0.5000 | 0.4466 | 89 | 0.4417 | 88 | 50-150 | 33-167 | 1 | 0-25 | |
| PCB105 | 0.5000 | 0.4941 | 99 | 0.4890 | 98 | 50-150 | 33-167 | 1 | 0-25 | |
| PCB118 | 0.5000 | 0.5047 | 101 | 0.4984 | 100 | 50-150 | 33-167 | 1 | 0-25 | |
| PCB126 | 0.5000 | 0.4918 | 98 | 0.4883 | 98 | 50-150 | 33-167 | 1 | 0-25 | |
| PCB128 | 0.5000 | 0.4241 | 85 | 0.4249 | 85 | 50-150 | 33-167 | 0 | 0-25 | |
| PCB170 | 0.5000 | 0.3970 | 79 | 0.3919 | 78 | 50-150 | 33-167 | 1 | 0-25 | |
| PCB180 | 0.5000 | 0.4461 | 89 | 0.4343 | 87 | 50-150 | 33-167 | 3 | 0-25 | |
| PCB187 | 0.5000 | 0.4366 | 87 | 0.4347 | 87 | 50-150 | 33-167 | 0 | 0-25 | |
| PCB195 | 0.5000 | 0.4516 | 90 | 0.4520 | 90 | 50-150 | 33-167 | 0 | 0-25 | |
| PCB206 | 0.5000 | 0.4289 | 86 | 0.4197 | 84 | 50-150 | 33-167 | 2 | 0-25 | |

Total number of LCS compounds: 16

Total number of ME compounds: 0

Total number of ME compounds allowed: 1

LCS ME CL validation result: Pass

RPD: Relative Percent Difference. CL: Control Limits

Glossary of Terms and Qualifiers

Work Order: 14-09-2205


Page 1 of 1

| <u>Qualifiers</u> | <u>Definition</u> |
|-------------------|--|
| * | See applicable analysis comment. |
| < | Less than the indicated value. |
| > | Greater than the indicated value. |
| 1 | Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification. |
| 2 | Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification. |
| 3 | Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control. |
| 4 | The MS/MSD RPD was out of control due to suspected matrix interference. |
| 5 | The PDS/PDSO or PES/PESO associated with this batch of samples was out of control due to suspected matrix interference. |
| 6 | Surrogate recovery below the acceptance limit. |
| 7 | Surrogate recovery above the acceptance limit. |
| B | Analyte was present in the associated method blank. |
| BU | Sample analyzed after holding time expired. |
| BV | Sample received after holding time expired. |
| E | Concentration exceeds the calibration range. |
| ET | Sample was extracted past end of recommended max. holding time. |
| HD | The chromatographic pattern was inconsistent with the profile of the reference fuel standard. |
| HDH | The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected). |
| HDL | The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected). |
| J | Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated. |
| JA | Analyte positively identified but quantitation is an estimate. |
| ME | LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean). |
| ND | Parameter not detected at the indicated reporting limit. |
| Q | Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater. |
| SG | The sample extract was subjected to Silica Gel treatment prior to analysis. |
| X | % Recovery and/or RPD out-of-range. |
| Z | Analyte presence was not confirmed by second column or GC/MS analysis. |

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of ≤ 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

Chain of Custody Record & Laboratory Analysis Request

| | | | |
|--|-------------------|------------|--|
| Laboratory Number: _____ Date: <u>9.26.14</u> Project Name: GWMA-TMDL Compliance Monitoring Project Number: 141205-01.01 Project Manager: Andy Martin Phone Number: (949) 334 9630 Shipment Method: <u>COURIER</u> | No. of Containers | Parameters |  14-09-2205 |
|--|-------------------|------------|--|

| Line | Field Sample ID | Collection Date/Time | Matrix | No. of Containers | TSS | Total and dissolved metals | Organochlorine pesticides | PCB congeners | Comments/Preservation |
|---------------|----------------------------------|----------------------|--------|-------------------|-----|----------------------------|---------------------------|---------------|--------------------------|
| 1 | LE-RW-22-G-S-20140920 | 9.26.14 0957 | Water | 6 | X | X | X | X | |
| 2 | LE-RW-22-G-M-20140920 | 9.26.14 0959 | | 1 | X | X | X | X | |
| 3 | LE-RW-22-G-B-20140920 | 9.26.14 1001 | | 1 | X | X | X | X | |
| 4 | LE-RW-21-G-S-20140920 | 9.26.14 1037 | | 6 | X | X | X | X | |
| 5 | LE-RW-21-G-M-20140920 | 9.26.14 1309 | | 1 | X | X | X | X | |
| 6 | LE-RW-21-G-B-20140920 | 9.26.14 1312 | | 1 | X | X | X | X | |
| 7 | SP-RW-18-G-S-20140920 | 9.26.14 1330 | | 6 | X | X | X | X | |
| 8 | SP-RW-18-G-M-20140920 | 9.26.14 1335 | | 1 | X | X | X | X | |
| 9 | SP-RW-18-G-B-20140920 | 9.26.14 1340 | | 1 | X | X | X | X | |
| 10 | SP-RW-19-G-S-20140920 | 9.26.14 1425 | | 6 | X | X | X | X | |
| 11 | SP-RW-19-G-M-20140920 | Be | | | | | | | |
| 11 | 42 SP-RW-19-G-M-20140920 | 9.26.14 1430 | | 2 | X | | | | (20) 2nd bottle: lab dup |
| 12 | 48 SP-RW-19-G-B-20140920 | 9.26.14 1435 | | 1 | X | | | | |
| 13 | 44 SP-RW-19-G-S-20140920 | 9.26.14 1525 | | 6 | X | X | X | X | |
| 14 | 15 SP-RW-20-G-M-20140920 | 9.26.14 1530 | | 1 | X | | | | |

Notes:

| | |
|---|----------------------------|
| Relinquished By: <u>B. Geiser</u> Signature/Printed Name | Company: <u>Anchor QEA</u> |
| <u>9.26.14 1740</u> Date/Time | |

| | |
|---|---------------------|
| Received By: <u>Rudy Miga</u> Signature/Printed Name | Company: <u>ECI</u> |
| <u>9/26/14 1740</u> Date/Time | |

| | |
|---|---------------------|
| Relinquished By: <u>Rudy Miga</u> Signature/Printed Name | Company: <u>ECI</u> |
| <u>9/26/14 19:10</u> Date/Time | |

| | |
|---|---------------------|
| Received By: <u>Dannyle</u> Signature/Printed Name | Company: <u>ECI</u> |
| <u>9/26/14 19:10</u> Date/Time | |

Chain of Custody Record & Laboratory Analysis Request

Laboratory Number:

Test Parameters

Date: 9.26.14

Project Name: **GWMA-TMDL Compliance Monitoring**

Project Number: **141205-01.01**

Project Manager: **Andy Martin**

Phone Number: **(949) 334 9630**

Shipment Method: Courier



| Line | Field Sample ID | Collection Date/Time | Matrix | No. of Containers | Test Parameters | | | | | | | | | | Comments/Preservation | | | |
|------|-------------------------|----------------------|--------|-------------------|-----------------|----------------------------|---------------------------|---------------|--|--|--|--|--|--|-----------------------|--|--|-----------|
| | | | | | TSS | Total and dissolved metals | Organochlorine pesticides | PCB congeners | | | | | | | | | | |
| 15 | SP-RW-10-G-M-20140926 | 9.26.14 1535 | Water | 1 | X | | | | | | | | | | | | | |
| 16 | OB-RW-17-G-S-20140926 | ↓ 1620 | ↓ | 6 | X | X | X | X | | | | | | | | | | |
| 17 | OB-RW-17-G-M-20140926 | ↓ 1625 | ↓ | 1 | X | | | | | | | | | | | | | |
| 18 | OB-RW-17-G-B-20140926 | ↓ 1630 | ↓ | 1 | X | | | | | | | | | | | | | |
| 19 | OB-RW-1017-G-M-20140926 | ↓ 1625 | ↓ | 1 | X | | | | | | | | | | | | | Field Dup |
| 6 | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | | | |

Notes:

Relinquished By: B. Gl Britt Geisler Company: Anchor QEA
 Signature/Printed Name Date/Time

Received By: R. V. HIGA Company: ECI
 Signature/Printed Name Date/Time

Relinquished By: R. V. HIGA Company: ECI
 Signature/Printed Name Date/Time

Received By: D. HIGA Company: ECI
 Signature/Printed Name Date/Time

Calscience

WORK ORDER #: **14-09-** 2 2 0 5

SAMPLE RECEIPT FORM

Cooler 1 of 4

CLIENT: ANCHOR REA

DATE: 09/26/14

TEMPERATURE: Thermometer ID: SC1 (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Temperature 2.4 °C - 0.3°C (CF) = 2.1 °C Blank Sample

Sample(s) outside temperature criteria (PM/APM contacted by: _____)

Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: Air Filter Checked by: 676

CUSTODY SEALS INTACT:

Cooler _____ No (Not Intact) Not Present N/A Checked by: 676

Sample _____ No (Not Intact) Not Present Checked by: 862

| SAMPLE CONDITION: | Yes | No | N/A |
|---|-------------------------------------|-------------------------------------|-------------------------------------|
| Chain-Of-Custody (COC) document(s) received with samples..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| COC document(s) received complete..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> Collection date/time, matrix, and/or # of containers logged in based on sample labels. <input type="checkbox"/> No analysis requested. <input type="checkbox"/> Not relinquished. <input type="checkbox"/> No date/time relinquished. | | | |
| Sampler's name indicated on COC..... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Sample container label(s) consistent with COC..... | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Sample container(s) intact and good condition..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Proper containers and sufficient volume for analyses requested..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Analyses received within holding time..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Aqueous samples received within 15-minute holding time | | | |
| <input type="checkbox"/> pH <input type="checkbox"/> Residual Chlorine <input type="checkbox"/> Dissolved Sulfides <input type="checkbox"/> Dissolved Oxygen..... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Proper preservation noted on COC or sample container..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> Unpreserved vials received for Volatiles analysis | | | |
| Volatile analysis container(s) free of headspace..... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Tedlar bag(s) free of condensation..... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

CONTAINER TYPE:

Solid: 4ozCGJ 8ozCGJ 16ozCGJ Sleeve (____) EnCores® TerraCores® _____

Aqueous: VOA VOAh VOAna₂ 125AGB 125AGBh 125AGBp 1AGB³ 1AGBna₂ 1AGBs

500AGB 500AGJ 500AGJs 250AGB 250CGB 250CGBs 1PB 1PBna 500PB

250PB² 250PBn 125PB 125PBz₂na 100PJ 100PJna₂ _____ _____ _____

Air: Tedlar® Canister **Other:** _____ **Trip Blank Lot#:** _____ **Labeled/Checked by:** 862

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope **Reviewed by:** 676

Preservative: h: HCL n: HNO₃ na₂: Na₂S₂O₃ na: NaOH p: H₃PO₄ s: H₂SO₄ u: Ultra-pure z₂na: ZnAc₂+NaOH f: Filtered **Scanned by:** 676

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Calscience

WORK ORDER #: **14-09-**2205

SAMPLE RECEIPT FORM

Cooler 2 of 4

CLIENT: ANCHOR QEA

DATE: 09/26/14

TEMPERATURE: Thermometer ID: SC1 (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Temperature 2.3 °C - 0.3°C (CF) = 2.0 °C Blank Sample

Sample(s) outside temperature criteria (PM/APM contacted by: _____)

Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: Air Filter Checked by: 676

CUSTODY SEALS INTACT:

Cooler _____ No (Not Intact) Not Present N/A Checked by: 676

Sample _____ No (Not Intact) Not Present Checked by: 802

| SAMPLE CONDITION: | Yes | No | N/A |
|---|-------------------------------------|--------------------------|-------------------------------------|
| Chain-Of-Custody (COC) document(s) received with samples..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| COC document(s) received complete..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> Collection date/time, matrix, and/or # of containers logged in based on sample labels. | | | |
| <input type="checkbox"/> No analysis requested. <input type="checkbox"/> Not relinquished. <input type="checkbox"/> No date/time relinquished. | | | |
| Sampler's name indicated on COC..... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Sample container label(s) consistent with COC..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Sample container(s) intact and good condition..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Proper containers and sufficient volume for analyses requested..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Analyses received within holding time..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Aqueous samples received within 15-minute holding time | | | |
| <input type="checkbox"/> pH <input type="checkbox"/> Residual Chlorine <input type="checkbox"/> Dissolved Sulfides <input type="checkbox"/> Dissolved Oxygen..... | | | |
| Proper preservation noted on COC or sample container..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> Unpreserved vials received for Volatiles analysis | | | |
| Volatile analysis container(s) free of headspace..... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Tedlar bag(s) free of condensation..... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

CONTAINER TYPE:

Solid: 4ozCGJ 8ozCGJ 16ozCGJ Sleeve (____) EnCores® TerraCores® _____

Aqueous: VOA VOA_h VOAn₂ 125AGB 125AGB_h 125AGB_p 1AGB 1AGBna₂ 1AGBs

500AGB 500AGJ 500AGJs 250AGB 250CGB 250CGBs 1PB 1PBna 500PB

250PB 250PBn 125PB 125PBz_{na} 100PJ 100PJna₂ _____ _____ _____

Air: Tedlar® Canister **Other:** _____ **Trip Blank Lot#:** _____ **Labeled/Checked by:** 802

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope **Reviewed by:** 676

Preservative: h: HCL n: HNO₃ na₂: Na₂S₂O₃ na: NaOH p: H₃PO₄ s: H₂SO₄ u: Ultra-pure z_{na}: ZnAc₂+NaOH f: Filtered **Scanned by:** 659

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WORK ORDER #: **14-09-2205**

SAMPLE RECEIPT FORM

Cooler 3 of 4

CLIENT: ANCHOR QEA

DATE: 09/26/14

TEMPERATURE: Thermometer ID: SC1 (Criteria: 0.0 °C – 6.0 °C, not frozen except sediment/tissue)

Temperature 2.4 °C - 0.3 °C (CF) = 2.1 °C Blank Sample

Sample(s) outside temperature criteria (PM/APM contacted by: _____)

Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: Air Filter Checked by: 676

CUSTODY SEALS INTACT:

Cooler _____ No (Not Intact) Not Present N/A Checked by: 676

Sample _____ No (Not Intact) Not Present Checked by: 862

| SAMPLE CONDITION: | Yes | No | N/A |
|---|-------------------------------------|--------------------------|-------------------------------------|
| Chain-Of-Custody (COC) document(s) received with samples..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| COC document(s) received complete..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> Collection date/time, matrix, and/or # of containers logged in based on sample labels. | | | |
| <input type="checkbox"/> No analysis requested. <input type="checkbox"/> Not relinquished. <input type="checkbox"/> No date/time relinquished. | | | |
| Sampler's name indicated on COC..... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Sample container label(s) consistent with COC..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Sample container(s) intact and good condition..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Proper containers and sufficient volume for analyses requested..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Analyses received within holding time..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Aqueous samples received within 15-minute holding time | | | |
| <input type="checkbox"/> pH <input type="checkbox"/> Residual Chlorine <input type="checkbox"/> Dissolved Sulfides <input type="checkbox"/> Dissolved Oxygen..... | | | |
| Proper preservation noted on COC or sample container..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> Unpreserved vials received for Volatiles analysis | | | |
| Volatile analysis container(s) free of headspace..... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Tedlar bag(s) free of condensation..... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

CONTAINER TYPE:

Solid: 4ozCGJ 8ozCGJ 16ozCGJ Sleeve (____) EnCores® TerraCores® _____

Aqueous: VOA VOAh VOAna₂ 125AGB 125AGBh 125AGBp 1AGB 1AGBna₂ 1AGBs

500AGB 500AGJ 500AGJs 250AGB 250CGB 250CGBs 1PB 1PBna 500PB

250PB 250PBn 125PB 125PBz_{na} 100PJ 100PJna₂ _____ _____ _____

Air: Tedlar® Canister **Other:** _____ **Trip Blank Lot#:** _____ **Labeled/Checked by:** 862

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope **Reviewed by:** 676

Preservative: h: HCL n: HNO₃ na₂: Na₂S₂O₃ na: NaOH p: H₃PO₄ s: H₂SO₄ u: Ultra-pure z_{na}: ZnAc₂+NaOH f: Filtered **Scanned by:** 659

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WORK ORDER #: **14-09-**2205

SAMPLE RECEIPT FORM

Cooler 4 of 4

CLIENT: ANCHOR QEA

DATE: 09/26/14

TEMPERATURE: Thermometer ID: SC1 (Criteria: 0.0 °C – 6.0 °C, not frozen except sediment/tissue)

Temperature 2.3 °C - 0.3 °C (CF) = 2.0 °C Blank Sample

Sample(s) outside temperature criteria (PM/APM contacted by: _____)

Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: Air Filter Checked by: 676

CUSTODY SEALS INTACT:

Cooler _____ No (Not Intact) Not Present N/A Checked by: 676

Sample _____ No (Not Intact) Not Present Checked by: 862

| SAMPLE CONDITION: | Yes | No | N/A |
|---|-------------------------------------|--------------------------|-------------------------------------|
| Chain-Of-Custody (COC) document(s) received with samples..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| COC document(s) received complete..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> Collection date/time, matrix, and/or # of containers logged in based on sample labels. | | | |
| <input type="checkbox"/> No analysis requested. <input type="checkbox"/> Not relinquished. <input type="checkbox"/> No date/time relinquished. | | | |
| Sampler's name indicated on COC..... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Sample container label(s) consistent with COC..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Sample container(s) intact and good condition..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Proper containers and sufficient volume for analyses requested..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Analyses received within holding time..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Aqueous samples received within 15-minute holding time | | | |
| <input type="checkbox"/> pH <input type="checkbox"/> Residual Chlorine <input type="checkbox"/> Dissolved Sulfides <input type="checkbox"/> Dissolved Oxygen..... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Proper preservation noted on COC or sample container..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> Unpreserved vials received for Volatiles analysis | | | |
| Volatile analysis container(s) free of headspace..... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Tedlar bag(s) free of condensation..... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

CONTAINER TYPE:

Solid: 4ozCGJ 8ozCGJ 16ozCGJ Sleeve (____) EnCores® TerraCores® _____

Aqueous: VOA VOAh VOAna₂ 125AGB 125AGBh 125AGBp 1AGB 1AGBna₂ 1AGBs

500AGB 500AGJ 500AGJs 250AGB 250CGB 250CGBs 1PB 1PBna 500PB

250PB 250PBn 125PB 125PBz_{na} 100PJ 100PJna₂ _____ _____ _____

Air: Tedlar® Canister **Other:** _____ **Trip Blank Lot#:** _____ **Labeled/Checked by:** 862

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope **Reviewed by:** 689

Preservative: h: HCL n: HNO₃ na₂: Na₂S₂O₃ na: NaOH p: H₃PO₄ s: H₂SO₄ u: Ultra-pure z_{na}: ZnAc₂+NaOH f: Filtered **Scanned by:** 659

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WORK ORDER #: 14-09-2205

SAMPLE ANOMALY FORM

SAMPLES - CONTAINERS & LABELS:

Comments:

- Sample(s) NOT RECEIVED but listed on COC
- Sample(s) received but NOT LISTED on COC
- Holding time expired – list sample ID(s) and test
- Insufficient quantities for analysis – list test
- Improper container(s) used – list test
- Improper preservative used – list test
- No preservative noted on COC or label – list test & notify lab
- Sample labels illegible – note test/container type
- Sample label(s) do not match COC – Note in comments
 - Sample ID
 - Date and/or Time Collected
 - Project Information
 - # of Container(s)
 - Analysis
- Sample container(s) compromised – Note in comments
 - Water present in sample container
 - Broken
- Sample container(s) not labeled
- Air sample container(s) compromised – Note in comments
 - Flat
 - Very low in volume
 - Leaking (Not transferred - duplicate bag submitted)
 - Leaking (transferred into Calscience Tedlar® Bag*)
 - Leaking (transferred into Client's Tedlar® Bag*)
- Other: _____

(-15) Labeled as:
SP-RW-20-G-B-20140926
9/26/14 15:35

HEADSPACE – Containers with Bubble > 6mm or ¼ inch:

| Sample # | Container ID(s) | # of Vials Received | Sample # | Container ID(s) | # of Vials Received | Sample # | Container ID(s) | # of Cont. received | Analysis |
|----------|-----------------|---------------------|----------|-----------------|---------------------|----------|-----------------|---------------------|----------|
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

Comments: _____

*Transferred at Client's request.

Initial / Date: 802 09/26/14

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WORK ORDER NUMBER: 14-10-0029

The difference is service



AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: ANCHOR QEA, LLC

Client Project Name: GWMA - TMDL Compliance Monitoring

Attention: Andy Martin
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Danielle Gonsman

Approved for release on 10/16/2014 by:
Danielle Gonsman
Project Manager

ResultLink ▶

Email your PM ▶



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Client Project Name: GWMA - TMDL Compliance Monitoring
 Work Order Number: 14-10-0029

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CASE NARRATIVE

Calscience Work Order No.: 14-10-0029
Project ID: GWMA-TMDL Compliance Monitoring

Provided below is a narrative of our analytical effort, including any unique features or anomalies encountered as part of the analysis of the seawater samples.

Sample Condition on Receipt

Thirty-seven seawater samples were received for this project on 1 October, 2014. The samples were transferred to the laboratory in an ice-chest with wet ice, following strict chain-of-custody (COC) procedures. The temperature of the samples upon receipt at the laboratory was 2.4-3.2°C. All samples were given laboratory identification numbers and logged into the Laboratory Information Management System (LIMS).

Tests Performed

Total Suspended Solids by SM 2540B (M)
Total and Dissolved Metals by EPA 1640/1631
Chlorinated Pesticides by EPA 8081A
PCB Congeners by EPA 8270C SIM

Data Summary

Samples were filtered in the laboratory for the dissolved metals analyses.

Holding times

All holding times were met.

Calibration

Frequency and control criteria for initial and continuing calibration verifications were met.

Reporting Limits

All Method Detection Limits were met. The results were evaluated to the MDL, and where applicable, "J" flags were reported.

Blanks

Concentrations of target analytes in the method blank were found to be below reporting limits for all testing.

Trace levels (below the RL, but above the MDL) of Mercury were detected in one of the EPA 1631 Method Blank QC Batches. The results have been flagged with B-qualifiers.

Laboratory Control Samples

A Laboratory Control Sample (LCS) analysis was performed at the required frequencies, and unless otherwise noted, all parameters were within the established control limits.

Matrix Spikes and QC Duplicates

Matrix spike analyses and/or QC Duplicates were performed for each applicable analysis when additional volume was available. All parameters were within the established control limits unless otherwise noted (non-project spike/duplicate samples, if any, are not discussed).

Laboratory Duplicates

A Lab Dup was performed for samples IA-RW-03-G-S-20149030 and CB-RW-11-G-M-20140930. The RPDs between the duplicates were within the control limits.

Surrogates

Surrogate recoveries for all applicable tests and samples were within the established control limits.

Acronyms

LCS - Laboratory Control Sample
MS/MSD- Matrix Spike/Matrix Spike Duplicate
PDS - Post Digestion Spike
RPD- Relative Percent Difference

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 10/01/14. They were assigned to Work Order 14-10-0029.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of ≤ 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

New York NELAP air certification does not certify for all reported methods and analytes, reference the accredited items here: http://www.calscience.com/PDF/New_York.pdf

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.



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Sample Summary

| | |
|------------------------------|---|
| Client: ANCHOR QEA, LLC | Work Order: 14-10-0029 |
| 27201 Puerta Real, Suite 350 | Project Name: GWMA - TMDL Compliance Monitoring |
| Mission Viejo, CA 92691-8306 | PO Number: |
| | Date/Time Received: 10/01/14 12:35 |
| | Number of Containers: 116 |

Attn: Andy Martin

| Sample Identification | Lab Number | Collection Date and Time | Number of Containers | Matrix |
|-------------------------------|---------------|--------------------------|----------------------|-----------|
| CB-RW-11-G-S-20140930 | 14-10-0029-1 | 09/30/14 09:00 | 6 | Sea Water |
| CB-RW-11-G-M-20140930 | 14-10-0029-2 | 09/30/14 09:05 | 2 | Sea Water |
| CB-RW-11-G-B-20140930 | 14-10-0029-3 | 09/30/14 09:10 | 1 | Sea Water |
| OA-RW-09-G-S-20140930 | 14-10-0029-4 | 09/30/14 09:32 | 6 | Sea Water |
| OA-RW-09-G-M-20140930 | 14-10-0029-5 | 09/30/14 09:36 | 1 | Sea Water |
| OA-RW-09-G-B-20140930 | 14-10-0029-6 | 09/30/14 09:39 | 1 | Sea Water |
| OA-RW-08-G-S-20140930 | 14-10-0029-7 | 09/30/14 10:10 | 6 | Sea Water |
| OA-RW-1008-G-S-20140930 | 14-10-0029-8 | 09/30/14 10:10 | 6 | Sea Water |
| OA-RW-08-G-M-20140930 | 14-10-0029-9 | 09/30/14 10:15 | 1 | Sea Water |
| OA-RW-08-G-B-20140930 | 14-10-0029-10 | 09/30/14 10:20 | 1 | Sea Water |
| CS-RW-01-G-S-20140930 | 14-10-0029-11 | 09/30/14 12:05 | 6 | Sea Water |
| CS-RW-01-G-M-20140930 | 14-10-0029-12 | 09/30/14 12:07 | 1 | Sea Water |
| CS-RW-01-G-B-20140930 | 14-10-0029-13 | 09/30/14 12:10 | 1 | Sea Water |
| EB-20140930 | 14-10-0029-14 | 09/30/14 11:22 | 5 | Sea Water |
| FB-20140930 | 14-10-0029-15 | 09/30/14 12:40 | 2 | Sea Water |
| IA-RW-02-G-S-20140930 | 14-10-0029-16 | 09/30/14 13:00 | 6 | Sea Water |
| IA-RW-02-G-M-20140930 | 14-10-0029-17 | 09/30/14 13:06 | 1 | Sea Water |
| IA-RW-02-G-B-20140930 | 14-10-0029-18 | 09/30/14 13:10 | 1 | Sea Water |
| IA-RW-04-G-S-20140930 | 14-10-0029-19 | 09/30/14 13:43 | 6 | Sea Water |
| IA-RW-04-G-M-20140930 | 14-10-0029-20 | 09/30/14 13:46 | 1 | Sea Water |
| IA-RW-04-G-B-20140930 | 14-10-0029-21 | 09/30/14 13:49 | 1 | Sea Water |
| IA-RW-03-G-S-20140930 | 14-10-0029-22 | 09/30/14 14:13 | 12 | Sea Water |
| IA-RW-03-G-M-20140930 | 14-10-0029-23 | 09/30/14 14:20 | 1 | Sea Water |
| IA-RW-03-G-B-20140930 | 14-10-0029-24 | 09/30/14 14:25 | 1 | Sea Water |
| IA-RW-06-G-S-20140930 | 14-10-0029-25 | 09/30/14 15:50 | 6 | Sea Water |
| IA-RW-06-G-M-20140930 | 14-10-0029-26 | 09/30/14 15:55 | 1 | Sea Water |
| IA-RW-1006-G-M-20140930 | 14-10-0029-27 | 09/30/14 15:55 | 1 | Sea Water |
| IA-RW-06-G-B-20140930 | 14-10-0029-28 | 09/30/14 16:00 | 1 | Sea Water |
| FH-RW-07-G-S-20140930 | 14-10-0029-29 | 09/30/14 16:30 | 6 | Sea Water |
| FH-RW-07-G-M-20140930 | 14-10-0029-30 | 09/30/14 16:33 | 1 | Sea Water |
| FH-RW-07-G-B-20140930 | 14-10-0029-31 | 09/30/14 16:36 | 1 | Sea Water |
| IA-RW-05-G-S-20140930 | 14-10-0029-32 | 09/30/14 17:05 | 6 | Sea Water |
| IA-RW-05-G-M-20140930 | 14-10-0029-33 | 09/30/14 17:10 | 1 | Sea Water |
| IA-RW-05-G-B-20140930 | 14-10-0029-34 | 09/30/14 17:15 | 1 | Sea Water |
| CM-RW-10-G-S-20140930 | 14-10-0029-35 | 09/30/14 17:50 | 6 | Sea Water |
| CM-RW-10-G-M-20140930 | 14-10-0029-36 | 09/30/14 17:55 | 1 | Sea Water |
| CM-RW-10-G-B-20140930 | 14-10-0029-37 | 09/30/14 18:00 | 1 | Sea Water |
| CB-RW-11-G-M-20140930 LAB DUP | 14-10-0029-38 | 09/30/14 09:05 | 1 | Sea Water |
| IA-RW-03-G-S-20140930 LAB DUP | 14-10-0029-39 | 09/30/14 14:13 | 6 | Sea Water |

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Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 10/01/14
Work Order: 14-10-0029
Preparation: N/A
Method: SM 2540 D
Units: mg/L

Project: GWMA - TMDL Compliance Monitoring

Page 1 of 7

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| CB-RW-11-G-S-20140930 | 14-10-0029-1-D | 09/30/14 09:00 | Sea Water | N/A | 10/07/14 | 10/07/14 16:00 | E1007TSSL2 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 1.2 | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| CB-RW-11-G-M-20140930 | 14-10-0029-2-A | 09/30/14 09:05 | Sea Water | N/A | 10/07/14 | 10/07/14 16:00 | E1007TSSL2 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 1.2 | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| CB-RW-11-G-B-20140930 | 14-10-0029-3-A | 09/30/14 09:10 | Sea Water | N/A | 10/07/14 | 10/07/14 16:00 | E1007TSSL2 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 7.0 | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OA-RW-09-G-S-20140930 | 14-10-0029-4-D | 09/30/14 09:32 | Sea Water | N/A | 10/07/14 | 10/07/14 16:00 | E1007TSSL2 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 1.0 | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OA-RW-09-G-M-20140930 | 14-10-0029-5-A | 09/30/14 09:36 | Sea Water | N/A | 10/07/14 | 10/07/14 16:00 | E1007TSSL2 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 1.1 | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OA-RW-09-G-B-20140930 | 14-10-0029-6-A | 09/30/14 09:39 | Sea Water | N/A | 10/07/14 | 10/07/14 16:00 | E1007TSSL2 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 1.3 | 1.0 | 0.95 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 10/01/14
Work Order: 14-10-0029
Preparation: N/A
Method: SM 2540 D
Units: mg/L

Project: GWMA - TMDL Compliance Monitoring

Page 2 of 7

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OA-RW-08-G-S-20140930 | 14-10-0029-7-C | 09/30/14 10:10 | Sea Water | N/A | 10/07/14 | 10/07/14 16:00 | E1007TSSL2 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | ND | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-------------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OA-RW-1008-G-S-20140930 | 14-10-0029-8-C | 09/30/14 10:10 | Sea Water | N/A | 10/07/14 | 10/07/14 16:00 | E1007TSSL2 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | ND | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OA-RW-08-G-M-20140930 | 14-10-0029-9-A | 09/30/14 10:15 | Sea Water | N/A | 10/07/14 | 10/07/14 16:00 | E1007TSSL2 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | ND | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OA-RW-08-G-B-20140930 | 14-10-0029-10-A | 09/30/14 10:20 | Sea Water | N/A | 10/07/14 | 10/07/14 16:00 | E1007TSSL2 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 1.0 | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| CS-RW-01-G-S-20140930 | 14-10-0029-11-C | 09/30/14 12:05 | Sea Water | N/A | 10/07/14 | 10/07/14 16:00 | E1007TSSL2 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 1.0 | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| CS-RW-01-G-M-20140930 | 14-10-0029-12-A | 09/30/14 12:07 | Sea Water | N/A | 10/07/14 | 10/07/14 16:00 | E1007TSSL2 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 2.4 | 1.0 | 0.95 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 10/01/14
Work Order: 14-10-0029
Preparation: N/A
Method: SM 2540 D
Units: mg/L

Project: GWMA - TMDL Compliance Monitoring

Page 3 of 7

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| CS-RW-01-G-B-20140930 | 14-10-0029-13-A | 09/30/14 12:10 | Sea Water | N/A | 10/07/14 | 10/07/14 16:00 | E1007TSSL2 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 4.5 | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-02-G-S-20140930 | 14-10-0029-16-B | 09/30/14 13:00 | Sea Water | N/A | 10/07/14 | 10/07/14 16:00 | E1007TSSL2 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | ND | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-02-G-M-20140930 | 14-10-0029-17-A | 09/30/14 13:06 | Sea Water | N/A | 10/07/14 | 10/07/14 16:00 | E1007TSSL2 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 1.0 | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-02-G-B-20140930 | 14-10-0029-18-A | 09/30/14 13:10 | Sea Water | N/A | 10/07/14 | 10/07/14 16:00 | E1007TSSL2 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 1.1 | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-04-G-S-20140930 | 14-10-0029-19-D | 09/30/14 13:43 | Sea Water | N/A | 10/07/14 | 10/07/14 16:00 | E1007TSSL2 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | ND | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-04-G-M-20140930 | 14-10-0029-20-A | 09/30/14 13:46 | Sea Water | N/A | 10/07/14 | 10/07/14 16:00 | E1007TSSL2 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 1.0 | 1.0 | 0.95 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 10/01/14
Work Order: 14-10-0029
Preparation: N/A
Method: SM 2540 D
Units: mg/L

Project: GWMA - TMDL Compliance Monitoring

Page 4 of 7

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-04-G-B-20140930 | 14-10-0029-21-A | 09/30/14 13:49 | Sea Water | N/A | 10/07/14 | 10/07/14 16:00 | E1007TSSL2 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 1.2 | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-03-G-S-20140930 | 14-10-0029-22-D | 09/30/14 14:13 | Sea Water | N/A | 10/07/14 | 10/07/14 16:00 | E1007TSSL2 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | ND | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-03-G-M-20140930 | 14-10-0029-23-A | 09/30/14 14:20 | Sea Water | N/A | 10/07/14 | 10/07/14 17:30 | E1007TSSL3 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 1.4 | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-03-G-B-20140930 | 14-10-0029-24-A | 09/30/14 14:25 | Sea Water | N/A | 10/07/14 | 10/07/14 17:30 | E1007TSSL3 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 1.0 | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-06-G-S-20140930 | 14-10-0029-25-D | 09/30/14 15:50 | Sea Water | N/A | 10/07/14 | 10/07/14 17:30 | E1007TSSL3 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 1.1 | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-06-G-M-20140930 | 14-10-0029-26-A | 09/30/14 15:55 | Sea Water | N/A | 10/07/14 | 10/07/14 17:30 | E1007TSSL3 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 1.5 | 1.0 | 0.95 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 10/01/14
Work Order: 14-10-0029
Preparation: N/A
Method: SM 2540 D
Units: mg/L

Project: GWMA - TMDL Compliance Monitoring

Page 5 of 7

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-------------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-1006-G-M-20140930 | 14-10-0029-27-A | 09/30/14 15:55 | Sea Water | N/A | 10/07/14 | 10/07/14 17:30 | E1007TSSL3 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 1.7 | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-06-G-B-20140930 | 14-10-0029-28-A | 09/30/14 16:00 | Sea Water | N/A | 10/07/14 | 10/07/14 17:30 | E1007TSSL3 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 5.0 | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| FH-RW-07-G-S-20140930 | 14-10-0029-29-D | 09/30/14 16:30 | Sea Water | N/A | 10/07/14 | 10/07/14 17:30 | E1007TSSL3 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 1.1 | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| FH-RW-07-G-M-20140930 | 14-10-0029-30-A | 09/30/14 16:33 | Sea Water | N/A | 10/07/14 | 10/07/14 17:30 | E1007TSSL3 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 1.4 | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| FH-RW-07-G-B-20140930 | 14-10-0029-31-A | 09/30/14 16:36 | Sea Water | N/A | 10/07/14 | 10/07/14 17:30 | E1007TSSL3 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 3.3 | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-05-G-S-20140930 | 14-10-0029-32-C | 09/30/14 17:05 | Sea Water | N/A | 10/07/14 | 10/07/14 17:30 | E1007TSSL3 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | ND | 1.0 | 0.95 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 10/01/14
Work Order: 14-10-0029
Preparation: N/A
Method: SM 2540 D
Units: mg/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-05-G-M-20140930 | 14-10-0029-33-A | 09/30/14 17:10 | Sea Water | N/A | 10/07/14 | 10/07/14 17:30 | E1007TSSL3 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 1.0 | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-05-G-B-20140930 | 14-10-0029-34-A | 09/30/14 17:15 | Sea Water | N/A | 10/07/14 | 10/07/14 17:30 | E1007TSSL3 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 1.1 | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| CM-RW-10-G-S-20140930 | 14-10-0029-35-D | 09/30/14 17:50 | Sea Water | N/A | 10/07/14 | 10/07/14 17:30 | E1007TSSL3 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | ND | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| CM-RW-10-G-M-20140930 | 14-10-0029-36-A | 09/30/14 17:55 | Sea Water | N/A | 10/07/14 | 10/07/14 17:30 | E1007TSSL3 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 2.0 | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| CM-RW-10-G-B-20140930 | 14-10-0029-37-A | 09/30/14 18:00 | Sea Water | N/A | 10/07/14 | 10/07/14 17:30 | E1007TSSL3 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 3.8 | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-------------------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| CB-RW-11-G-M-20140930 LAB DUP | 14-10-0029-38-A | 09/30/14 09:05 | Sea Water | N/A | 10/07/14 | 10/07/14 17:30 | E1007TSSL3 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 1.1 | 1.0 | 0.95 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 10/01/14
 Work Order: 14-10-0029
 Preparation: N/A
 Method: SM 2540 D
 Units: mg/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-------------------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-03-G-S-20140930 LAB DUP | 14-10-0029-39-A | 09/30/14 14:13 | Sea Water | N/A | 10/07/14 | 10/07/14 17:30 | E1007TSSL3 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 1.2 | 1.0 | 0.95 | 1.00 | |

| | | | | | | | |
|--------------|-----------------|-----|---------|-----|----------|----------------|------------|
| Method Blank | 099-09-010-6823 | N/A | Aqueous | N/A | 10/07/14 | 10/07/14 16:00 | E1007TSSL2 |
|--------------|-----------------|-----|---------|-----|----------|----------------|------------|

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | ND | 1.0 | 0.95 | 1.00 | |

| | | | | | | | |
|--------------|-----------------|-----|---------|-----|----------|----------------|------------|
| Method Blank | 099-09-010-6824 | N/A | Aqueous | N/A | 10/07/14 | 10/07/14 17:30 | E1007TSSL3 |
|--------------|-----------------|-----|---------|-----|----------|----------------|------------|

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | ND | 1.0 | 0.95 | 1.00 | |

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 10/01/14
Work Order: 14-10-0029
Preparation: EPA 1631E Total
Method: EPA 1631E
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

Page 1 of 3

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| CB-RW-11-G-S-20140930 | 14-10-0029-1-E | 09/30/14 09:00 | Sea Water | Hg/AF 1 | 10/04/14 | 10/04/14 00:00 | 141004L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|----------|----------|----------|------|------------|
| Mercury | 0.000899 | 0.000500 | 0.000146 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OA-RW-09-G-S-20140930 | 14-10-0029-4-E | 09/30/14 09:32 | Sea Water | Hg/AF 1 | 10/04/14 | 10/04/14 00:00 | 141004L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|----------|----------|----------|------|------------|
| Mercury | 0.000656 | 0.000500 | 0.000146 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OA-RW-08-G-S-20140930 | 14-10-0029-7-E | 09/30/14 10:10 | Sea Water | Hg/AF 1 | 10/04/14 | 10/04/14 00:00 | 141004L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|----------|----------|----------|------|------------|
| Mercury | 0.000473 | 0.000500 | 0.000146 | 1.00 | J |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-------------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OA-RW-1008-G-S-20140930 | 14-10-0029-8-E | 09/30/14 10:10 | Sea Water | Hg/AF 1 | 10/04/14 | 10/04/14 00:00 | 141004L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|----------|----------|----------|------|------------|
| Mercury | 0.000427 | 0.000500 | 0.000146 | 1.00 | J |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| CS-RW-01-G-S-20140930 | 14-10-0029-11-E | 09/30/14 12:05 | Sea Water | Hg/AF 1 | 10/04/14 | 10/04/14 00:00 | 141004L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|---------|----------|----------|------|------------|
| Mercury | 0.00106 | 0.000500 | 0.000146 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| EB-20140930 | 14-10-0029-14-E | 09/30/14 11:22 | Sea Water | Hg/AF 1 | 10/04/14 | 10/04/14 00:00 | 141004L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|----------|----------|----------|------|------------|
| Mercury | 0.000383 | 0.000500 | 0.000146 | 1.00 | J |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 10/01/14
Work Order: 14-10-0029
Preparation: EPA 1631E Total
Method: EPA 1631E
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

Page 2 of 3

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| FB-20140930 | 14-10-0029-15-A | 09/30/14 12:40 | Sea Water | Hg/AF 1 | 10/04/14 | 10/04/14 00:00 | 141004L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|----------|----------|----------|------|------------|
| Mercury | 0.000364 | 0.000500 | 0.000146 | 1.00 | J |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-02-G-S-20140930 | 14-10-0029-16-E | 09/30/14 13:00 | Sea Water | Hg/AF 1 | 10/04/14 | 10/04/14 00:00 | 141004L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|----------|----------|----------|------|------------|
| Mercury | 0.000898 | 0.000500 | 0.000146 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-04-G-S-20140930 | 14-10-0029-19-E | 09/30/14 13:43 | Sea Water | Hg/AF 1 | 10/04/14 | 10/04/14 00:00 | 141004L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|----------|----------|----------|------|------------|
| Mercury | 0.000889 | 0.000500 | 0.000146 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-03-G-S-20140930 | 14-10-0029-22-E | 09/30/14 14:13 | Sea Water | Hg/AF 1 | 10/04/14 | 10/04/14 00:00 | 141004L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|----------|----------|----------|------|------------|
| Mercury | 0.000762 | 0.000500 | 0.000146 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-06-G-S-20140930 | 14-10-0029-25-E | 09/30/14 15:50 | Sea Water | Hg/AF 1 | 10/04/14 | 10/04/14 00:00 | 141004L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|---------|----------|----------|------|------------|
| Mercury | 0.00129 | 0.000500 | 0.000146 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| FH-RW-07-G-S-20140930 | 14-10-0029-29-E | 09/30/14 16:30 | Sea Water | Hg/AF 1 | 10/04/14 | 10/04/14 00:00 | 141004L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|---------|----------|----------|------|------------|
| Mercury | 0.00230 | 0.000500 | 0.000146 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 10/01/14
Work Order: 14-10-0029
Preparation: EPA 1631E Total
Method: EPA 1631E
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-05-G-S-20140930 | 14-10-0029-32-E | 09/30/14 17:05 | Sea Water | Hg/AF 1 | 10/04/14 | 10/04/14 00:00 | 141004L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|----------|----------|----------|------|------------|
| Mercury | 0.000507 | 0.000500 | 0.000146 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| CM-RW-10-G-S-20140930 | 14-10-0029-35-E | 09/30/14 17:50 | Sea Water | Hg/AF 1 | 10/04/14 | 10/04/14 00:00 | 141004L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|----------|----------|----------|------|------------|
| Mercury | 0.000607 | 0.000500 | 0.000146 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-------------------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-03-G-S-20140930 LAB DUP | 14-10-0029-39-E | 09/30/14 14:13 | Sea Water | Hg/AF 1 | 10/04/14 | 10/04/14 00:00 | 141004L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|----------|----------|----------|------|------------|
| Mercury | 0.000840 | 0.000500 | 0.000146 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|---------|------------|---------------|--------------------|-------------|
| Method Blank | 099-15-224-59 | N/A | Aqueous | Hg/AF 1 | 10/04/14 | 10/04/14 00:00 | 141004L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|----------|----------|------|------------|
| Mercury | ND | 0.000500 | 0.000146 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 10/01/14
Work Order: 14-10-0029
Preparation: Filtered
Method: EPA 1631E
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

Page 1 of 3

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| CB-RW-11-G-S-20140930 | 14-10-0029-1-F | 09/30/14 09:00 | Sea Water | Hg/AF 1 | 10/04/14 | 10/04/14 00:00 | 141004L01F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|----------|----------|----------|------|------------|
| Mercury | 0.000456 | 0.000500 | 0.000146 | 1.00 | B,J |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OA-RW-09-G-S-20140930 | 14-10-0029-4-F | 09/30/14 09:32 | Sea Water | Hg/AF 1 | 10/04/14 | 10/04/14 00:00 | 141004L01F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|----------|----------|----------|------|------------|
| Mercury | 0.000469 | 0.000500 | 0.000146 | 1.00 | B,J |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OA-RW-08-G-S-20140930 | 14-10-0029-7-D | 09/30/14 10:10 | Sea Water | Hg/AF 1 | 10/04/14 | 10/04/14 00:00 | 141004L01F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|----------|----------|----------|------|------------|
| Mercury | 0.000329 | 0.000500 | 0.000146 | 1.00 | B,J |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-------------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OA-RW-1008-G-S-20140930 | 14-10-0029-8-D | 09/30/14 10:10 | Sea Water | Hg/AF 1 | 10/04/14 | 10/04/14 00:00 | 141004L01F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|----------|----------|----------|------|------------|
| Mercury | 0.000291 | 0.000500 | 0.000146 | 1.00 | B,J |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| CS-RW-01-G-S-20140930 | 14-10-0029-11-D | 09/30/14 12:05 | Sea Water | Hg/AF 1 | 10/04/14 | 10/04/14 00:00 | 141004L01F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|----------|----------|----------|------|------------|
| Mercury | 0.000485 | 0.000500 | 0.000146 | 1.00 | B,J |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| EB-20140930 | 14-10-0029-14-D | 09/30/14 11:22 | Sea Water | Hg/AF 1 | 10/04/14 | 10/04/14 00:00 | 141004L02F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|----------|----------|----------|------|------------|
| Mercury | 0.000337 | 0.000500 | 0.000146 | 1.00 | J |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 10/01/14
Work Order: 14-10-0029
Preparation: Filtered
Method: EPA 1631E
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

Page 2 of 3

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| FB-20140930 | 14-10-0029-15-B | 09/30/14 12:40 | Sea Water | Hg/AF 1 | 10/04/14 | 10/04/14 00:00 | 141004L02F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|----------|----------|----------|------|------------|
| Mercury | 0.000351 | 0.000500 | 0.000146 | 1.00 | J |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-02-G-S-20140930 | 14-10-0029-16-F | 09/30/14 13:00 | Sea Water | Hg/AF 1 | 10/04/14 | 10/04/14 00:00 | 141004L02F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|----------|----------|----------|------|------------|
| Mercury | 0.000383 | 0.000500 | 0.000146 | 1.00 | J |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-04-G-S-20140930 | 14-10-0029-19-F | 09/30/14 13:43 | Sea Water | Hg/AF 1 | 10/04/14 | 10/04/14 00:00 | 141004L02F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|----------|----------|----------|------|------------|
| Mercury | 0.000334 | 0.000500 | 0.000146 | 1.00 | J |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-03-G-S-20140930 | 14-10-0029-22-F | 09/30/14 14:13 | Sea Water | Hg/AF 1 | 10/04/14 | 10/04/14 00:00 | 141004L02F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|----------|----------|----------|------|------------|
| Mercury | 0.000388 | 0.000500 | 0.000146 | 1.00 | J |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-06-G-S-20140930 | 14-10-0029-25-F | 09/30/14 15:50 | Sea Water | Hg/AF 1 | 10/04/14 | 10/04/14 00:00 | 141004L02F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|----------|----------|----------|------|------------|
| Mercury | 0.000328 | 0.000500 | 0.000146 | 1.00 | J |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| FH-RW-07-G-S-20140930 | 14-10-0029-29-F | 09/30/14 16:30 | Sea Water | Hg/AF 1 | 10/04/14 | 10/04/14 00:00 | 141004L02F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|----------|----------|----------|------|------------|
| Mercury | 0.000416 | 0.000500 | 0.000146 | 1.00 | J |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 10/01/14
Work Order: 14-10-0029
Preparation: Filtered
Method: EPA 1631E
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

Page 3 of 3

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-05-G-S-20140930 | 14-10-0029-32-D | 09/30/14 17:05 | Sea Water | Hg/AF 1 | 10/04/14 | 10/04/14 00:00 | 141004L02F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|----------|----------|----------|------|------------|
| Mercury | 0.000233 | 0.000500 | 0.000146 | 1.00 | J |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| CM-RW-10-G-S-20140930 | 14-10-0029-35-F | 09/30/14 17:50 | Sea Water | Hg/AF 1 | 10/04/14 | 10/04/14 00:00 | 141004L02F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|----------|----------|----------|------|------------|
| Mercury | 0.000419 | 0.000500 | 0.000146 | 1.00 | J |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-------------------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-03-G-S-20140930 LAB DUP | 14-10-0029-39-F | 09/30/14 14:13 | Sea Water | Hg/AF 1 | 10/04/14 | 10/04/14 00:00 | 141004L02F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|----------|----------|----------|------|------------|
| Mercury | 0.000399 | 0.000500 | 0.000146 | 1.00 | J |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|---------|------------|---------------|--------------------|-------------|
| Method Blank | 099-15-226-44 | N/A | Aqueous | Hg/AF 1 | 10/04/14 | 10/04/14 00:00 | 141004L01F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|----------|----------|----------|------|------------|
| Mercury | 0.000208 | 0.000500 | 0.000146 | 1.00 | J |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|---------|------------|---------------|--------------------|-------------|
| Method Blank | 099-15-226-45 | N/A | Aqueous | Hg/AF 1 | 10/04/14 | 10/04/14 00:00 | 141004L02F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|----------|----------|------|------------|
| Mercury | ND | 0.000500 | 0.000146 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 10/01/14
Work Order: 14-10-0029
Preparation: EPA 3005A Total
Method: EPA 1640
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

Page 1 of 6

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| CB-RW-11-G-S-20140930 | 14-10-0029-1-E | 09/30/14 09:00 | Sea Water | ICP/MS 05 | 10/09/14 | 10/12/14 02:56 | 141009L03 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0568 | 0.0300 | 0.00567 | 1.00 | |
| Chromium | 0.467 | 0.500 | 0.164 | 1.00 | J |
| Copper | 4.31 | 0.0300 | 0.00898 | 1.00 | |
| Lead | 1.26 | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 17.5 | 0.500 | 0.0736 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OA-RW-09-G-S-20140930 | 14-10-0029-4-E | 09/30/14 09:32 | Sea Water | ICP/MS 05 | 10/09/14 | 10/12/14 03:04 | 141009L03 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0416 | 0.0300 | 0.00567 | 1.00 | |
| Chromium | 0.431 | 0.500 | 0.164 | 1.00 | J |
| Copper | 1.25 | 0.0300 | 0.00898 | 1.00 | |
| Lead | 0.205 | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 5.21 | 0.500 | 0.0736 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OA-RW-08-G-S-20140930 | 14-10-0029-7-E | 09/30/14 10:10 | Sea Water | ICP/MS 05 | 10/09/14 | 10/12/14 03:12 | 141009L03 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0258 | 0.0300 | 0.00567 | 1.00 | J |
| Chromium | 0.399 | 0.500 | 0.164 | 1.00 | J |
| Copper | 0.414 | 0.0300 | 0.00898 | 1.00 | |
| Lead | 0.595 | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 2.76 | 0.500 | 0.0736 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 10/01/14
Work Order: 14-10-0029
Preparation: EPA 3005A Total
Method: EPA 1640
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

Page 2 of 6

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-------------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OA-RW-1008-G-S-20140930 | 14-10-0029-8-E | 09/30/14 10:10 | Sea Water | ICP/MS 05 | 10/09/14 | 10/12/14 03:20 | 141009L03 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0272 | 0.0300 | 0.00567 | 1.00 | J |
| Chromium | 0.423 | 0.500 | 0.164 | 1.00 | J |
| Copper | 0.273 | 0.0300 | 0.00898 | 1.00 | |
| Lead | 0.124 | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 3.11 | 0.500 | 0.0736 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| CS-RW-01-G-S-20140930 | 14-10-0029-11-E | 09/30/14 12:05 | Sea Water | ICP/MS 05 | 10/09/14 | 10/12/14 04:00 | 141009L03 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0762 | 0.0300 | 0.00567 | 1.00 | |
| Chromium | 0.554 | 0.500 | 0.164 | 1.00 | |
| Copper | 2.98 | 0.0300 | 0.00898 | 1.00 | |
| Lead | 0.700 | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 11.8 | 0.500 | 0.0736 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| EB-20140930 | 14-10-0029-14-E | 09/30/14 11:22 | Sea Water | ICP/MS 05 | 10/09/14 | 10/12/14 15:34 | 141009L03 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | ND | 0.0300 | 0.00567 | 1.00 | |
| Chromium | ND | 0.500 | 0.164 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| EB-20140930 | 14-10-0029-14-E | 09/30/14 11:22 | Sea Water | ICP/MS 05 | 10/09/14 | 10/15/14 16:30 | 141009L03 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Copper | ND | 0.0300 | 0.00898 | 1.00 | |
| Lead | ND | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 0.140 | 0.500 | 0.0736 | 1.00 | J |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 10/01/14
Work Order: 14-10-0029
Preparation: EPA 3005A Total
Method: EPA 1640
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

Page 3 of 6

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| FB-20140930 | 14-10-0029-15-A | 09/30/14 12:40 | Sea Water | ICP/MS 05 | 10/09/14 | 10/12/14 02:48 | 141009L03 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | ND | 0.0300 | 0.00567 | 1.00 | |
| Chromium | ND | 0.500 | 0.164 | 1.00 | |
| Copper | 0.0442 | 0.0300 | 0.00898 | 1.00 | |
| Lead | ND | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 0.180 | 0.500 | 0.0736 | 1.00 | J |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-02-G-S-20140930 | 14-10-0029-16-E | 09/30/14 13:00 | Sea Water | ICP/MS 05 | 10/09/14 | 10/12/14 04:08 | 141009L03 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0635 | 0.0300 | 0.00567 | 1.00 | |
| Chromium | 0.448 | 0.500 | 0.164 | 1.00 | J |
| Copper | 2.72 | 0.0300 | 0.00898 | 1.00 | |
| Lead | 0.289 | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 9.90 | 0.500 | 0.0736 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-04-G-S-20140930 | 14-10-0029-19-E | 09/30/14 13:43 | Sea Water | ICP/MS 05 | 10/09/14 | 10/12/14 04:16 | 141009L03 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0512 | 0.0300 | 0.00567 | 1.00 | |
| Chromium | 0.441 | 0.500 | 0.164 | 1.00 | J |
| Copper | 2.07 | 0.0300 | 0.00898 | 1.00 | |
| Lead | 0.825 | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 4.96 | 0.500 | 0.0736 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 10/01/14
Work Order: 14-10-0029
Preparation: EPA 3005A Total
Method: EPA 1640
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-03-G-S-20140930 | 14-10-0029-22-E | 09/30/14 14:13 | Sea Water | ICP/MS 05 | 10/09/14 | 10/12/14 04:23 | 141009L02 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0540 | 0.0300 | 0.00567 | 1.00 | |
| Chromium | 0.399 | 0.500 | 0.164 | 1.00 | J |
| Copper | 1.88 | 0.0300 | 0.00898 | 1.00 | |
| Lead | 0.198 | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 4.64 | 0.500 | 0.0736 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-06-G-S-20140930 | 14-10-0029-25-E | 09/30/14 15:50 | Sea Water | ICP/MS 05 | 10/09/14 | 10/12/14 05:03 | 141009L02 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0546 | 0.0300 | 0.00567 | 1.00 | |
| Chromium | 0.477 | 0.500 | 0.164 | 1.00 | J |
| Copper | 1.76 | 0.0300 | 0.00898 | 1.00 | |
| Lead | 0.210 | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 5.17 | 0.500 | 0.0736 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| FH-RW-07-G-S-20140930 | 14-10-0029-29-E | 09/30/14 16:30 | Sea Water | ICP/MS 05 | 10/09/14 | 10/12/14 04:39 | 141009L02 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0719 | 0.0300 | 0.00567 | 1.00 | |
| Chromium | 0.438 | 0.500 | 0.164 | 1.00 | J |
| Copper | 4.31 | 0.0300 | 0.00898 | 1.00 | |
| Lead | 0.527 | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 10.5 | 0.500 | 0.0736 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 10/01/14
Work Order: 14-10-0029
Preparation: EPA 3005A Total
Method: EPA 1640
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-05-G-S-20140930 | 14-10-0029-32-E | 09/30/14 17:05 | Sea Water | ICP/MS 05 | 10/09/14 | 10/12/14 04:47 | 141009L02 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0450 | 0.0300 | 0.00567 | 1.00 | |
| Chromium | 0.443 | 0.500 | 0.164 | 1.00 | J |
| Copper | 1.27 | 0.0300 | 0.00898 | 1.00 | |
| Lead | 0.125 | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 3.08 | 0.500 | 0.0736 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| CM-RW-10-G-S-20140930 | 14-10-0029-35-E | 09/30/14 17:05 | Sea Water | ICP/MS 05 | 10/09/14 | 10/12/14 04:55 | 141009L02 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0654 | 0.0300 | 0.00567 | 1.00 | |
| Chromium | 0.432 | 0.500 | 0.164 | 1.00 | J |
| Copper | 6.44 | 0.0300 | 0.00898 | 1.00 | |
| Lead | 0.171 | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 19.0 | 0.500 | 0.0736 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-------------------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-03-G-S-20140930 LAB DUP | 14-10-0029-39-E | 09/30/14 14:13 | Sea Water | ICP/MS 05 | 10/09/14 | 10/12/14 04:31 | 141009L02 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0586 | 0.0300 | 0.00567 | 1.00 | |
| Chromium | 0.414 | 0.500 | 0.164 | 1.00 | J |
| Copper | 1.89 | 0.0300 | 0.00898 | 1.00 | |
| Lead | 0.203 | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 4.19 | 0.500 | 0.0736 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

| | | |
|------------------------------|----------------|-----------------|
| ANCHOR QEA, LLC | Date Received: | 10/01/14 |
| 27201 Puerta Real, Suite 350 | Work Order: | 14-10-0029 |
| Mission Viejo, CA 92691-8306 | Preparation: | EPA 3005A Total |
| | Method: | EPA 1640 |
| | Units: | ug/L |

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|---------|------------|---------------|--------------------|-------------|
| Method Blank | 099-13-067-448 | N/A | Aqueous | ICP/MS 05 | 10/09/14 | 10/11/14 13:57 | 141009L02 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | ND | 0.0300 | 0.00567 | 1.00 | |
| Chromium | ND | 0.500 | 0.164 | 1.00 | |
| Copper | ND | 0.0300 | 0.00898 | 1.00 | |
| Lead | ND | 0.0300 | 0.0135 | 1.00 | |
| Zinc | ND | 0.500 | 0.0736 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|---------|------------|---------------|--------------------|-------------|
| Method Blank | 099-13-067-449 | N/A | Aqueous | ICP/MS 05 | 10/09/14 | 10/11/14 14:13 | 141009L03 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | ND | 0.0300 | 0.00567 | 1.00 | |
| Chromium | ND | 0.500 | 0.164 | 1.00 | |
| Copper | ND | 0.0300 | 0.00898 | 1.00 | |
| Lead | ND | 0.0300 | 0.0135 | 1.00 | |
| Zinc | ND | 0.500 | 0.0736 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 10/01/14
Work Order: 14-10-0029
Preparation: EPA 3005A Filt.
Method: EPA 1640
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

Page 1 of 6

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| CB-RW-11-G-S-20140930 | 14-10-0029-1-F | 09/30/14 09:00 | Sea Water | ICP/MS 05 | 10/09/14 | 10/11/14 23:52 | 141009L03F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0561 | 0.0300 | 0.00567 | 1.00 | |
| Chromium | 0.367 | 0.500 | 0.164 | 1.00 | J |
| Copper | 2.86 | 0.0300 | 0.00898 | 1.00 | |
| Lead | 0.236 | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 16.3 | 0.500 | 0.0736 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OA-RW-09-G-S-20140930 | 14-10-0029-4-F | 09/30/14 09:32 | Sea Water | ICP/MS 05 | 10/09/14 | 10/12/14 00:32 | 141009L03F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0220 | 0.0300 | 0.00567 | 1.00 | J |
| Chromium | 0.349 | 0.500 | 0.164 | 1.00 | J |
| Copper | 0.697 | 0.0300 | 0.00898 | 1.00 | |
| Lead | ND | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 0.576 | 0.500 | 0.0736 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OA-RW-08-G-S-20140930 | 14-10-0029-7-D | 09/30/14 10:10 | Sea Water | ICP/MS 05 | 10/09/14 | 10/12/14 00:40 | 141009L03F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0125 | 0.0300 | 0.00567 | 1.00 | J |
| Chromium | 0.387 | 0.500 | 0.164 | 1.00 | J |
| Copper | 0.0667 | 0.0300 | 0.00898 | 1.00 | |
| Lead | ND | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 0.290 | 0.500 | 0.0736 | 1.00 | J |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 10/01/14
Work Order: 14-10-0029
Preparation: EPA 3005A Filt.
Method: EPA 1640
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

Page 2 of 6

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-------------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OA-RW-1008-G-S-20140930 | 14-10-0029-8-D | 09/30/14 10:10 | Sea Water | ICP/MS 05 | 10/09/14 | 10/12/14 00:48 | 141009L03F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0373 | 0.0300 | 0.00567 | 1.00 | |
| Chromium | 0.391 | 0.500 | 0.164 | 1.00 | J |
| Copper | 0.257 | 0.0300 | 0.00898 | 1.00 | |
| Lead | 0.0827 | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 3.36 | 0.500 | 0.0736 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| CS-RW-01-G-S-20140930 | 14-10-0029-11-D | 09/30/14 12:05 | Sea Water | ICP/MS 05 | 10/09/14 | 10/12/14 00:56 | 141009L03F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0817 | 0.0300 | 0.00567 | 1.00 | |
| Chromium | 0.392 | 0.500 | 0.164 | 1.00 | J |
| Copper | 2.21 | 0.0300 | 0.00898 | 1.00 | |
| Lead | 0.146 | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 11.0 | 0.500 | 0.0736 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| EB-20140930 | 14-10-0029-14-D | 09/30/14 11:22 | Sea Water | ICP/MS 05 | 10/09/14 | 10/11/14 23:36 | 141009L03F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | ND | 0.0300 | 0.00567 | 1.00 | |
| Chromium | ND | 0.500 | 0.164 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| EB-20140930 | 14-10-0029-14-D | 09/30/14 11:22 | Sea Water | ICP/MS 05 | 10/09/14 | 10/14/14 16:27 | 141009L03F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Copper | 0.0168 | 0.0300 | 0.00898 | 1.00 | J |
| Lead | ND | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 0.862 | 0.500 | 0.0736 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 10/01/14
Work Order: 14-10-0029
Preparation: EPA 3005A Filt.
Method: EPA 1640
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

Page 3 of 6

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| FB-20140930 | 14-10-0029-15-B | 09/30/14 12:40 | Sea Water | ICP/MS 05 | 10/09/14 | 10/14/14 16:35 | 141009L03F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | ND | 0.0300 | 0.00567 | 1.00 | |
| Chromium | 0.201 | 0.500 | 0.164 | 1.00 | J |
| Copper | ND | 0.0300 | 0.00898 | 1.00 | |
| Lead | ND | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 0.107 | 0.500 | 0.0736 | 1.00 | J |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-02-G-S-20140930 | 14-10-0029-16-F | 09/30/14 13:00 | Sea Water | ICP/MS 05 | 10/09/14 | 10/12/14 01:04 | 141009L03F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0705 | 0.0300 | 0.00567 | 1.00 | |
| Chromium | 0.401 | 0.500 | 0.164 | 1.00 | J |
| Copper | 2.08 | 0.0300 | 0.00898 | 1.00 | |
| Lead | 0.150 | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 9.92 | 0.500 | 0.0736 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-04-G-S-20140930 | 14-10-0029-19-F | 09/30/14 13:43 | Sea Water | ICP/MS 05 | 10/09/14 | 10/12/14 01:12 | 141009L03F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0630 | 0.0300 | 0.00567 | 1.00 | |
| Chromium | 0.370 | 0.500 | 0.164 | 1.00 | J |
| Copper | 1.79 | 0.0300 | 0.00898 | 1.00 | |
| Lead | 0.948 | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 4.85 | 0.500 | 0.0736 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 10/01/14
Work Order: 14-10-0029
Preparation: EPA 3005A Filt.
Method: EPA 1640
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-03-G-S-20140930 | 14-10-0029-22-F | 09/30/14 14:13 | Sea Water | ICP/MS 05 | 10/09/14 | 10/12/14 01:20 | 141009L02F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0623 | 0.0300 | 0.00567 | 1.00 | |
| Chromium | 0.341 | 0.500 | 0.164 | 1.00 | J |
| Copper | 1.46 | 0.0300 | 0.00898 | 1.00 | |
| Lead | 0.101 | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 4.44 | 0.500 | 0.0736 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-06-G-S-20140930 | 14-10-0029-25-F | 09/30/14 15:50 | Sea Water | ICP/MS 05 | 10/09/14 | 10/12/14 02:32 | 141009L02F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0399 | 0.0300 | 0.00567 | 1.00 | |
| Chromium | 0.335 | 0.500 | 0.164 | 1.00 | J |
| Copper | 1.30 | 0.0300 | 0.00898 | 1.00 | |
| Lead | 0.0172 | 0.0300 | 0.0135 | 1.00 | J |
| Zinc | 2.89 | 0.500 | 0.0736 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| FH-RW-07-G-S-20140930 | 14-10-0029-29-F | 09/30/14 16:30 | Sea Water | ICP/MS 05 | 10/09/14 | 10/12/14 01:36 | 141009L02F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0679 | 0.0300 | 0.00567 | 1.00 | |
| Chromium | 0.360 | 0.500 | 0.164 | 1.00 | J |
| Copper | 3.02 | 0.0300 | 0.00898 | 1.00 | |
| Lead | 0.140 | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 9.79 | 0.500 | 0.0736 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 10/01/14
Work Order: 14-10-0029
Preparation: EPA 3005A Filt.
Method: EPA 1640
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-05-G-S-20140930 | 14-10-0029-32-D | 09/30/14 17:05 | Sea Water | ICP/MS 05 | 10/09/14 | 10/12/14 02:16 | 141009L02F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0463 | 0.0300 | 0.00567 | 1.00 | |
| Chromium | 0.336 | 0.500 | 0.164 | 1.00 | J |
| Copper | 0.905 | 0.0300 | 0.00898 | 1.00 | |
| Lead | 0.0313 | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 3.20 | 0.500 | 0.0736 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| CM-RW-10-G-S-20140930 | 14-10-0029-35-F | 09/30/14 17:05 | Sea Water | ICP/MS 05 | 10/09/14 | 10/12/14 02:24 | 141009L02F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0722 | 0.0300 | 0.00567 | 1.00 | |
| Chromium | 0.363 | 0.500 | 0.164 | 1.00 | J |
| Copper | 5.24 | 0.0300 | 0.00898 | 1.00 | |
| Lead | 0.0704 | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 18.1 | 0.500 | 0.0736 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-------------------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-03-G-S-20140930 LAB DUP | 14-10-0029-39-F | 09/30/14 14:13 | Sea Water | ICP/MS 05 | 10/09/14 | 10/12/14 01:28 | 141009L02F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0609 | 0.0300 | 0.00567 | 1.00 | |
| Chromium | 0.367 | 0.500 | 0.164 | 1.00 | J |
| Copper | 1.52 | 0.0300 | 0.00898 | 1.00 | |
| Lead | 0.0639 | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 5.01 | 0.500 | 0.0736 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 10/01/14
Work Order: 14-10-0029
Preparation: EPA 3005A Filt.
Method: EPA 1640
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|---------|------------|---------------|--------------------|-------------|
| Method Blank | 099-15-823-110 | N/A | Aqueous | ICP/MS 05 | 10/09/14 | 10/11/14 14:05 | 141009L02F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | ND | 0.0300 | 0.00567 | 1.00 | |
| Chromium | ND | 0.500 | 0.164 | 1.00 | |
| Copper | ND | 0.0300 | 0.00898 | 1.00 | |
| Lead | ND | 0.0300 | 0.0135 | 1.00 | |
| Zinc | ND | 0.500 | 0.0736 | 1.00 | |

| | | | | | | | |
|--------------|----------------|-----|---------|-----------|----------|-------------------|------------|
| Method Blank | 099-15-823-109 | N/A | Aqueous | ICP/MS 05 | 10/09/14 | 10/11/14 14:21 | 141009L03F |
|--------------|----------------|-----|---------|-----------|----------|-------------------|------------|

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | ND | 0.0300 | 0.00567 | 1.00 | |
| Chromium | ND | 0.500 | 0.164 | 1.00 | |
| Copper | ND | 0.0300 | 0.00898 | 1.00 | |
| Lead | ND | 0.0300 | 0.0135 | 1.00 | |
| Zinc | ND | 0.500 | 0.0736 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 10/01/14
Work Order: 14-10-0029
Preparation: EPA 3510C
Method: EPA 8081A
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| CB-RW-11-G-S-20140930 | 14-10-0029-1-A | 09/30/14 09:00 | Sea Water | GC 44 | 10/04/14 | 10/07/14 20:03 | 141004L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------------------------|----------|----------------|------------|------|------------|
| 2,4'-DDD | ND | 0.0019 | 0.00056 | 1.00 | |
| 2,4'-DDE | ND | 0.0019 | 0.00047 | 1.00 | |
| 2,4'-DDT | ND | 0.0019 | 0.00065 | 1.00 | |
| 4,4'-DDD | ND | 0.0019 | 0.00052 | 1.00 | |
| 4,4'-DDE | ND | 0.0019 | 0.00046 | 1.00 | |
| 4,4'-DDT | ND | 0.0019 | 0.00053 | 1.00 | |
| Alpha Chlordane | ND | 0.0019 | 0.00047 | 1.00 | |
| Cis-nonachlor | ND | 0.0019 | 0.00048 | 1.00 | |
| Dieldrin | ND | 0.0019 | 0.00052 | 1.00 | |
| Gamma Chlordane | ND | 0.0019 | 0.00047 | 1.00 | |
| Oxychlordane | ND | 0.0019 | 0.00060 | 1.00 | |
| Toxaphene | ND | 0.024 | 0.0079 | 1.00 | |
| Trans-nonachlor | ND | 0.0019 | 0.00053 | 1.00 | |
| Surrogate | Rec. (%) | Control Limits | Qualifiers | | |
| Decachlorobiphenyl | 62 | 50-150 | | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 75 | 50-150 | | | |

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 10/01/14
Work Order: 14-10-0029
Preparation: EPA 3510C
Method: EPA 8081A
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OA-RW-09-G-S-20140930 | 14-10-0029-4-A | 09/30/14 09:32 | Sea Water | GC 44 | 10/04/14 | 10/07/14 20:17 | 141004L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------------------------|----------|----------------|------------|------|------------|
| 2,4'-DDD | ND | 0.0019 | 0.00056 | 1.00 | |
| 2,4'-DDE | ND | 0.0019 | 0.00047 | 1.00 | |
| 2,4'-DDT | ND | 0.0019 | 0.00065 | 1.00 | |
| 4,4'-DDD | ND | 0.0019 | 0.00052 | 1.00 | |
| 4,4'-DDE | ND | 0.0019 | 0.00046 | 1.00 | |
| 4,4'-DDT | ND | 0.0019 | 0.00053 | 1.00 | |
| Alpha Chlordane | ND | 0.0019 | 0.00047 | 1.00 | |
| Cis-nonachlor | ND | 0.0019 | 0.00048 | 1.00 | |
| Dieldrin | ND | 0.0019 | 0.00052 | 1.00 | |
| Gamma Chlordane | ND | 0.0019 | 0.00047 | 1.00 | |
| Oxychlordane | ND | 0.0019 | 0.00060 | 1.00 | |
| Toxaphene | ND | 0.024 | 0.0079 | 1.00 | |
| Trans-nonachlor | ND | 0.0019 | 0.00053 | 1.00 | |
| Surrogate | Rec. (%) | Control Limits | Qualifiers | | |
| Decachlorobiphenyl | 75 | 50-150 | | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 88 | 50-150 | | | |

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

| | | |
|------------------------------|----------------|------------|
| ANCHOR QEA, LLC | Date Received: | 10/01/14 |
| 27201 Puerta Real, Suite 350 | Work Order: | 14-10-0029 |
| Mission Viejo, CA 92691-8306 | Preparation: | EPA 3510C |
| | Method: | EPA 8081A |
| | Units: | ug/L |

Project: GWMA - TMDL Compliance Monitoring

Page 3 of 15

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OA-RW-08-G-S-20140930 | 14-10-0029-7-A | 09/30/14 10:10 | Sea Water | GC 44 | 10/04/14 | 10/07/14 20:32 | 141004L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------------------------|----------|----------------|------------|------|------------|
| 2,4'-DDD | ND | 0.0019 | 0.00056 | 1.00 | |
| 2,4'-DDE | ND | 0.0019 | 0.00047 | 1.00 | |
| 2,4'-DDT | ND | 0.0019 | 0.00065 | 1.00 | |
| 4,4'-DDD | ND | 0.0019 | 0.00052 | 1.00 | |
| 4,4'-DDE | ND | 0.0019 | 0.00046 | 1.00 | |
| 4,4'-DDT | ND | 0.0019 | 0.00053 | 1.00 | |
| Alpha Chlordane | ND | 0.0019 | 0.00047 | 1.00 | |
| Cis-nonachlor | ND | 0.0019 | 0.00048 | 1.00 | |
| Dieldrin | ND | 0.0019 | 0.00052 | 1.00 | |
| Gamma Chlordane | ND | 0.0019 | 0.00047 | 1.00 | |
| Oxychlordane | ND | 0.0019 | 0.00060 | 1.00 | |
| Toxaphene | ND | 0.024 | 0.0079 | 1.00 | |
| Trans-nonachlor | ND | 0.0019 | 0.00053 | 1.00 | |
| Surrogate | Rec. (%) | Control Limits | Qualifiers | | |
| Decachlorobiphenyl | 69 | 50-150 | | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 85 | 50-150 | | | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

| | | |
|------------------------------|----------------|------------|
| ANCHOR QEA, LLC | Date Received: | 10/01/14 |
| 27201 Puerta Real, Suite 350 | Work Order: | 14-10-0029 |
| Mission Viejo, CA 92691-8306 | Preparation: | EPA 3510C |
| | Method: | EPA 8081A |
| | Units: | ug/L |

Project: GWMA - TMDL Compliance Monitoring

Page 4 of 15

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-------------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OA-RW-1008-G-S-20140930 | 14-10-0029-8-B | 09/30/14 10:10 | Sea Water | GC 44 | 10/04/14 | 10/07/14 20:46 | 141004L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------------------------|----------|----------------|------------|------|------------|
| 2,4'-DDD | ND | 0.0019 | 0.00056 | 1.00 | |
| 2,4'-DDE | ND | 0.0019 | 0.00047 | 1.00 | |
| 2,4'-DDT | ND | 0.0019 | 0.00065 | 1.00 | |
| 4,4'-DDD | ND | 0.0019 | 0.00052 | 1.00 | |
| 4,4'-DDE | ND | 0.0019 | 0.00046 | 1.00 | |
| 4,4'-DDT | ND | 0.0019 | 0.00053 | 1.00 | |
| Alpha Chlordane | ND | 0.0019 | 0.00047 | 1.00 | |
| Cis-nonachlor | ND | 0.0019 | 0.00048 | 1.00 | |
| Dieldrin | ND | 0.0019 | 0.00052 | 1.00 | |
| Gamma Chlordane | ND | 0.0019 | 0.00047 | 1.00 | |
| Oxychlordane | ND | 0.0019 | 0.00060 | 1.00 | |
| Toxaphene | ND | 0.024 | 0.0079 | 1.00 | |
| Trans-nonachlor | ND | 0.0019 | 0.00053 | 1.00 | |
| Surrogate | Rec. (%) | Control Limits | Qualifiers | | |
| Decachlorobiphenyl | 65 | 50-150 | | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 80 | 50-150 | | | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 10/01/14
Work Order: 14-10-0029
Preparation: EPA 3510C
Method: EPA 8081A
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

Page 5 of 15

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| CS-RW-01-G-S-20140930 | 14-10-0029-11-B | 09/30/14 12:05 | Sea Water | GC 44 | 10/04/14 | 10/07/14 21:00 | 141004L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------------------------|----------|----------------|------------|------|------------|
| 2,4'-DDD | ND | 0.0019 | 0.00056 | 1.00 | |
| 2,4'-DDE | ND | 0.0019 | 0.00047 | 1.00 | |
| 2,4'-DDT | ND | 0.0019 | 0.00065 | 1.00 | |
| 4,4'-DDD | ND | 0.0019 | 0.00052 | 1.00 | |
| 4,4'-DDE | ND | 0.0019 | 0.00046 | 1.00 | |
| 4,4'-DDT | ND | 0.0019 | 0.00053 | 1.00 | |
| Alpha Chlordane | ND | 0.0019 | 0.00047 | 1.00 | |
| Cis-nonachlor | ND | 0.0019 | 0.00048 | 1.00 | |
| Dieldrin | ND | 0.0019 | 0.00052 | 1.00 | |
| Gamma Chlordane | ND | 0.0019 | 0.00047 | 1.00 | |
| Oxychlordane | ND | 0.0019 | 0.00060 | 1.00 | |
| Toxaphene | ND | 0.024 | 0.0079 | 1.00 | |
| Trans-nonachlor | ND | 0.0019 | 0.00053 | 1.00 | |
| Surrogate | Rec. (%) | Control Limits | Qualifiers | | |
| Decachlorobiphenyl | 69 | 50-150 | | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 81 | 50-150 | | | |

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

| | | |
|------------------------------|----------------|------------|
| ANCHOR QEA, LLC | Date Received: | 10/01/14 |
| 27201 Puerta Real, Suite 350 | Work Order: | 14-10-0029 |
| Mission Viejo, CA 92691-8306 | Preparation: | EPA 3510C |
| | Method: | EPA 8081A |
| | Units: | ug/L |

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| EB-20140930 | 14-10-0029-14-C | 09/30/14 11:22 | Sea Water | GC 44 | 10/04/14 | 10/07/14 21:15 | 141004L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------------------------|----------|----------------|------------|------|------------|
| 2,4'-DDD | ND | 0.0019 | 0.00056 | 1.00 | |
| 2,4'-DDE | ND | 0.0019 | 0.00047 | 1.00 | |
| 2,4'-DDT | ND | 0.0019 | 0.00065 | 1.00 | |
| 4,4'-DDD | ND | 0.0019 | 0.00052 | 1.00 | |
| 4,4'-DDE | ND | 0.0019 | 0.00046 | 1.00 | |
| 4,4'-DDT | ND | 0.0019 | 0.00053 | 1.00 | |
| Alpha Chlordane | ND | 0.0019 | 0.00047 | 1.00 | |
| Cis-nonachlor | ND | 0.0019 | 0.00048 | 1.00 | |
| Dieldrin | ND | 0.0019 | 0.00052 | 1.00 | |
| Gamma Chlordane | ND | 0.0019 | 0.00047 | 1.00 | |
| Oxychlordane | ND | 0.0019 | 0.00060 | 1.00 | |
| Toxaphene | ND | 0.024 | 0.0079 | 1.00 | |
| Trans-nonachlor | ND | 0.0019 | 0.00053 | 1.00 | |
| Surrogate | Rec. (%) | Control Limits | Qualifiers | | |
| Decachlorobiphenyl | 70 | 50-150 | | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 79 | 50-150 | | | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 10/01/14
Work Order: 14-10-0029
Preparation: EPA 3510C
Method: EPA 8081A
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-02-G-S-20140930 | 14-10-0029-16-A | 09/30/14 13:00 | Sea Water | GC 44 | 10/04/14 | 10/07/14 21:29 | 141004L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------------------------|----------|----------------|------------|------|------------|
| 2,4'-DDD | ND | 0.0019 | 0.00056 | 1.00 | |
| 2,4'-DDE | ND | 0.0019 | 0.00047 | 1.00 | |
| 2,4'-DDT | ND | 0.0019 | 0.00065 | 1.00 | |
| 4,4'-DDD | ND | 0.0019 | 0.00052 | 1.00 | |
| 4,4'-DDE | ND | 0.0019 | 0.00046 | 1.00 | |
| 4,4'-DDT | ND | 0.0019 | 0.00053 | 1.00 | |
| Alpha Chlordane | ND | 0.0019 | 0.00047 | 1.00 | |
| Cis-nonachlor | ND | 0.0019 | 0.00048 | 1.00 | |
| Dieldrin | ND | 0.0019 | 0.00052 | 1.00 | |
| Gamma Chlordane | ND | 0.0019 | 0.00047 | 1.00 | |
| Oxychlordane | ND | 0.0019 | 0.00060 | 1.00 | |
| Toxaphene | ND | 0.024 | 0.0079 | 1.00 | |
| Trans-nonachlor | ND | 0.0019 | 0.00053 | 1.00 | |
| Surrogate | Rec. (%) | Control Limits | Qualifiers | | |
| Decachlorobiphenyl | 64 | 50-150 | | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 76 | 50-150 | | | |

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 10/01/14
Work Order: 14-10-0029
Preparation: EPA 3510C
Method: EPA 8081A
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-04-G-S-20140930 | 14-10-0029-19-B | 09/30/14 13:43 | Sea Water | GC 44 | 10/04/14 | 10/07/14 21:44 | 141004L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------------------------|----------|----------------|------------|------|------------|
| 2,4'-DDD | ND | 0.0019 | 0.00056 | 1.00 | |
| 2,4'-DDE | ND | 0.0019 | 0.00047 | 1.00 | |
| 2,4'-DDT | ND | 0.0019 | 0.00066 | 1.00 | |
| 4,4'-DDD | ND | 0.0019 | 0.00053 | 1.00 | |
| 4,4'-DDE | ND | 0.0019 | 0.00046 | 1.00 | |
| 4,4'-DDT | ND | 0.0019 | 0.00053 | 1.00 | |
| Alpha Chlordane | ND | 0.0019 | 0.00047 | 1.00 | |
| Cis-nonachlor | ND | 0.0019 | 0.00048 | 1.00 | |
| Dieldrin | ND | 0.0019 | 0.00053 | 1.00 | |
| Gamma Chlordane | ND | 0.0019 | 0.00047 | 1.00 | |
| Oxychlordane | ND | 0.0019 | 0.00060 | 1.00 | |
| Toxaphene | ND | 0.024 | 0.0079 | 1.00 | |
| Trans-nonachlor | ND | 0.0019 | 0.00054 | 1.00 | |
| Surrogate | Rec. (%) | Control Limits | Qualifiers | | |
| Decachlorobiphenyl | 70 | 50-150 | | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 82 | 50-150 | | | |

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

| | | |
|------------------------------|----------------|------------|
| ANCHOR QEA, LLC | Date Received: | 10/01/14 |
| 27201 Puerta Real, Suite 350 | Work Order: | 14-10-0029 |
| Mission Viejo, CA 92691-8306 | Preparation: | EPA 3510C |
| | Method: | EPA 8081A |
| | Units: | ug/L |

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-03-G-S-20140930 | 14-10-0029-22-A | 09/30/14 14:13 | Sea Water | GC 44 | 10/04/14 | 10/07/14 21:58 | 141004L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------------------------|----------|----------------|------------|------|------------|
| 2,4'-DDD | ND | 0.0019 | 0.00056 | 1.00 | |
| 2,4'-DDE | ND | 0.0019 | 0.00047 | 1.00 | |
| 2,4'-DDT | ND | 0.0019 | 0.00065 | 1.00 | |
| 4,4'-DDD | ND | 0.0019 | 0.00052 | 1.00 | |
| 4,4'-DDE | ND | 0.0019 | 0.00046 | 1.00 | |
| 4,4'-DDT | ND | 0.0019 | 0.00053 | 1.00 | |
| Alpha Chlordane | ND | 0.0019 | 0.00047 | 1.00 | |
| Cis-nonachlor | ND | 0.0019 | 0.00048 | 1.00 | |
| Dieldrin | ND | 0.0019 | 0.00052 | 1.00 | |
| Gamma Chlordane | ND | 0.0019 | 0.00047 | 1.00 | |
| Oxychlordane | ND | 0.0019 | 0.00060 | 1.00 | |
| Toxaphene | ND | 0.024 | 0.0079 | 1.00 | |
| Trans-nonachlor | ND | 0.0019 | 0.00053 | 1.00 | |
| Surrogate | Rec. (%) | Control Limits | Qualifiers | | |
| Decachlorobiphenyl | 62 | 50-150 | | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 72 | 50-150 | | | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

| | | |
|------------------------------|----------------|------------|
| ANCHOR QEA, LLC | Date Received: | 10/01/14 |
| 27201 Puerta Real, Suite 350 | Work Order: | 14-10-0029 |
| Mission Viejo, CA 92691-8306 | Preparation: | EPA 3510C |
| | Method: | EPA 8081A |
| | Units: | ug/L |

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-06-G-S-20140930 | 14-10-0029-25-A | 09/30/14 15:50 | Sea Water | GC 44 | 10/04/14 | 10/07/14 22:13 | 141004L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------------------------|----------|----------------|------------|------|------------|
| 2,4'-DDD | ND | 0.0019 | 0.00056 | 1.00 | |
| 2,4'-DDE | ND | 0.0019 | 0.00047 | 1.00 | |
| 2,4'-DDT | ND | 0.0019 | 0.00065 | 1.00 | |
| 4,4'-DDD | ND | 0.0019 | 0.00052 | 1.00 | |
| 4,4'-DDE | ND | 0.0019 | 0.00046 | 1.00 | |
| 4,4'-DDT | ND | 0.0019 | 0.00053 | 1.00 | |
| Alpha Chlordane | ND | 0.0019 | 0.00047 | 1.00 | |
| Cis-nonachlor | ND | 0.0019 | 0.00048 | 1.00 | |
| Dieldrin | ND | 0.0019 | 0.00052 | 1.00 | |
| Gamma Chlordane | ND | 0.0019 | 0.00047 | 1.00 | |
| Oxychlordane | ND | 0.0019 | 0.00060 | 1.00 | |
| Toxaphene | ND | 0.024 | 0.0079 | 1.00 | |
| Trans-nonachlor | ND | 0.0019 | 0.00053 | 1.00 | |
| Surrogate | Rec. (%) | Control Limits | Qualifiers | | |
| Decachlorobiphenyl | 69 | 50-150 | | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 78 | 50-150 | | | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

| | | |
|------------------------------|----------------|------------|
| ANCHOR QEA, LLC | Date Received: | 10/01/14 |
| 27201 Puerta Real, Suite 350 | Work Order: | 14-10-0029 |
| Mission Viejo, CA 92691-8306 | Preparation: | EPA 3510C |
| | Method: | EPA 8081A |
| | Units: | ug/L |

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| FH-RW-07-G-S-20140930 | 14-10-0029-29-B | 09/30/14 16:30 | Sea Water | GC 44 | 10/04/14 | 10/07/14 22:27 | 141004L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------------------------|----------|----------------|------------|------|------------|
| 2,4'-DDD | ND | 0.0019 | 0.00056 | 1.00 | |
| 2,4'-DDE | ND | 0.0019 | 0.00047 | 1.00 | |
| 2,4'-DDT | ND | 0.0019 | 0.00065 | 1.00 | |
| 4,4'-DDD | ND | 0.0019 | 0.00052 | 1.00 | |
| 4,4'-DDE | ND | 0.0019 | 0.00046 | 1.00 | |
| 4,4'-DDT | ND | 0.0019 | 0.00053 | 1.00 | |
| Alpha Chlordane | ND | 0.0019 | 0.00047 | 1.00 | |
| Cis-nonachlor | ND | 0.0019 | 0.00048 | 1.00 | |
| Dieldrin | ND | 0.0019 | 0.00052 | 1.00 | |
| Gamma Chlordane | ND | 0.0019 | 0.00047 | 1.00 | |
| Oxychlordane | ND | 0.0019 | 0.00060 | 1.00 | |
| Toxaphene | ND | 0.024 | 0.0079 | 1.00 | |
| Trans-nonachlor | ND | 0.0019 | 0.00053 | 1.00 | |
| Surrogate | Rec. (%) | Control Limits | Qualifiers | | |
| Decachlorobiphenyl | 72 | 50-150 | | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 86 | 50-150 | | | |



Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

| | | |
|------------------------------|----------------|------------|
| ANCHOR QEA, LLC | Date Received: | 10/01/14 |
| 27201 Puerta Real, Suite 350 | Work Order: | 14-10-0029 |
| Mission Viejo, CA 92691-8306 | Preparation: | EPA 3510C |
| | Method: | EPA 8081A |
| | Units: | ug/L |

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-05-G-S-20140930 | 14-10-0029-32-A | 09/30/14 17:05 | Sea Water | GC 44 | 10/04/14 | 10/08/14 11:48 | 141004L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------------------------|----------|----------------|------------|------|------------|
| 2,4'-DDD | ND | 0.0019 | 0.00056 | 1.00 | |
| 2,4'-DDE | ND | 0.0019 | 0.00047 | 1.00 | |
| 2,4'-DDT | ND | 0.0019 | 0.00065 | 1.00 | |
| 4,4'-DDD | ND | 0.0019 | 0.00052 | 1.00 | |
| 4,4'-DDE | ND | 0.0019 | 0.00046 | 1.00 | |
| 4,4'-DDT | ND | 0.0019 | 0.00053 | 1.00 | |
| Alpha Chlordane | ND | 0.0019 | 0.00047 | 1.00 | |
| Cis-nonachlor | ND | 0.0019 | 0.00048 | 1.00 | |
| Dieldrin | ND | 0.0019 | 0.00052 | 1.00 | |
| Gamma Chlordane | ND | 0.0019 | 0.00047 | 1.00 | |
| Oxychlordane | ND | 0.0019 | 0.00060 | 1.00 | |
| Toxaphene | ND | 0.024 | 0.0079 | 1.00 | |
| Trans-nonachlor | ND | 0.0019 | 0.00053 | 1.00 | |
| Surrogate | Rec. (%) | Control Limits | Qualifiers | | |
| Decachlorobiphenyl | 80 | 50-150 | | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 99 | 50-150 | | | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

| | | |
|------------------------------|----------------|------------|
| ANCHOR QEA, LLC | Date Received: | 10/01/14 |
| 27201 Puerta Real, Suite 350 | Work Order: | 14-10-0029 |
| Mission Viejo, CA 92691-8306 | Preparation: | EPA 3510C |
| | Method: | EPA 8081A |
| | Units: | ug/L |

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| CM-RW-10-G-S-20140930 | 14-10-0029-35-C | 09/30/14 17:50 | Sea Water | GC 44 | 10/04/14 | 10/08/14 12:03 | 141004L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------------------------|----------|----------------|------------|------|------------|
| 2,4'-DDD | ND | 0.0019 | 0.00057 | 1.00 | |
| 2,4'-DDE | ND | 0.0019 | 0.00047 | 1.00 | |
| 2,4'-DDT | ND | 0.0019 | 0.00067 | 1.00 | |
| 4,4'-DDD | ND | 0.0019 | 0.00053 | 1.00 | |
| 4,4'-DDE | ND | 0.0019 | 0.00046 | 1.00 | |
| 4,4'-DDT | ND | 0.0019 | 0.00054 | 1.00 | |
| Alpha Chlordane | ND | 0.0019 | 0.00048 | 1.00 | |
| Cis-nonachlor | ND | 0.0019 | 0.00049 | 1.00 | |
| Dieldrin | ND | 0.0019 | 0.00053 | 1.00 | |
| Gamma Chlordane | ND | 0.0019 | 0.00047 | 1.00 | |
| Oxychlordane | ND | 0.0019 | 0.00061 | 1.00 | |
| Toxaphene | ND | 0.024 | 0.0080 | 1.00 | |
| Trans-nonachlor | ND | 0.0019 | 0.00054 | 1.00 | |
| Surrogate | Rec. (%) | Control Limits | Qualifiers | | |
| Decachlorobiphenyl | 71 | 50-150 | | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 83 | 50-150 | | | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 10/01/14
Work Order: 14-10-0029
Preparation: EPA 3510C
Method: EPA 8081A
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-------------------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-03-G-S-20140930 LAB DUP | 14-10-0029-39-C | 09/30/14 14:13 | Sea Water | GC 44 | 10/04/14 | 10/08/14 12:17 | 141004L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------------------------|----------|----------------|------------|------|------------|
| 2,4'-DDD | ND | 0.0020 | 0.00057 | 1.00 | |
| 2,4'-DDE | ND | 0.0020 | 0.00048 | 1.00 | |
| 2,4'-DDT | ND | 0.0020 | 0.00067 | 1.00 | |
| 4,4'-DDD | ND | 0.0020 | 0.00054 | 1.00 | |
| 4,4'-DDE | ND | 0.0020 | 0.00047 | 1.00 | |
| 4,4'-DDT | ND | 0.0020 | 0.00054 | 1.00 | |
| Alpha Chlordane | ND | 0.0020 | 0.00048 | 1.00 | |
| Cis-nonachlor | ND | 0.0020 | 0.00049 | 1.00 | |
| Dieldrin | ND | 0.0020 | 0.00054 | 1.00 | |
| Gamma Chlordane | ND | 0.0020 | 0.00048 | 1.00 | |
| Oxychlordane | ND | 0.0020 | 0.00061 | 1.00 | |
| Toxaphene | ND | 0.025 | 0.0081 | 1.00 | |
| Trans-nonachlor | ND | 0.0020 | 0.00055 | 1.00 | |
| Surrogate | Rec. (%) | Control Limits | Qualifiers | | |
| Decachlorobiphenyl | 80 | 50-150 | | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 94 | 50-150 | | | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 10/01/14
Work Order: 14-10-0029
Preparation: EPA 3510C
Method: EPA 8081A
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|---------|------------|---------------|--------------------|-------------|
| Method Blank | 099-16-036-10 | N/A | Aqueous | GC 44 | 10/04/14 | 10/07/14 19:20 | 141004L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------------------------|----------|----------------|------------|------|------------|
| 2,4'-DDD | ND | 0.0020 | 0.00058 | 1.00 | |
| 2,4'-DDE | ND | 0.0020 | 0.00049 | 1.00 | |
| 2,4'-DDT | ND | 0.0020 | 0.00069 | 1.00 | |
| 4,4'-DDD | ND | 0.0020 | 0.00055 | 1.00 | |
| 4,4'-DDE | ND | 0.0020 | 0.00048 | 1.00 | |
| 4,4'-DDT | ND | 0.0020 | 0.00055 | 1.00 | |
| Alpha Chlordane | ND | 0.0020 | 0.00049 | 1.00 | |
| Cis-nonachlor | ND | 0.0020 | 0.00050 | 1.00 | |
| Dieldrin | ND | 0.0020 | 0.00055 | 1.00 | |
| Gamma Chlordane | ND | 0.0020 | 0.00049 | 1.00 | |
| Oxychlordane | ND | 0.0020 | 0.00063 | 1.00 | |
| Toxaphene | ND | 0.025 | 0.0082 | 1.00 | |
| Trans-nonachlor | ND | 0.0020 | 0.00056 | 1.00 | |
| Surrogate | Rec. (%) | Control Limits | Qualifiers | | |
| Decachlorobiphenyl | 70 | 50-150 | | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 72 | 50-150 | | | |

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 10/01/14
Work Order: 14-10-0029
Preparation: EPA 3510C
Method: EPA 8270C SIM PCB Congeners
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| CB-RW-11-G-S-20140930 | 14-10-0029-1-C | 09/30/14 09:00 | Sea Water | GC/MS HHH | 10/04/14 | 10/09/14 20:33 | 141004L02 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------|--------|--------|---------|------|------------|
| PCB018 | ND | 0.0019 | 0.00040 | 1.00 | |
| PCB028 | ND | 0.0019 | 0.00064 | 1.00 | |
| PCB037 | ND | 0.0019 | 0.00046 | 1.00 | |
| PCB044 | ND | 0.0019 | 0.00075 | 1.00 | |
| PCB049 | ND | 0.0019 | 0.00075 | 1.00 | |
| PCB052 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB066 | ND | 0.0019 | 0.00055 | 1.00 | |
| PCB070 | ND | 0.0019 | 0.00037 | 1.00 | |
| PCB074 | ND | 0.0019 | 0.00041 | 1.00 | |
| PCB077 | ND | 0.0019 | 0.00063 | 1.00 | |
| PCB081 | ND | 0.0019 | 0.00047 | 1.00 | |
| PCB087 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB099 | ND | 0.0019 | 0.00058 | 1.00 | |
| PCB101 | ND | 0.0019 | 0.00056 | 1.00 | |
| PCB105 | ND | 0.0019 | 0.00036 | 1.00 | |
| PCB110 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB114 | ND | 0.0019 | 0.00042 | 1.00 | |
| PCB118 | ND | 0.0019 | 0.00047 | 1.00 | |
| PCB119 | ND | 0.0019 | 0.00041 | 1.00 | |
| PCB123 | ND | 0.0019 | 0.00074 | 1.00 | |
| PCB126 | ND | 0.0019 | 0.00052 | 1.00 | |
| PCB128 | ND | 0.0019 | 0.00068 | 1.00 | |
| PCB132/153 | ND | 0.0038 | 0.0011 | 1.00 | |
| PCB138/158 | ND | 0.0038 | 0.0011 | 1.00 | |
| PCB149 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB151 | ND | 0.0019 | 0.00059 | 1.00 | |
| PCB156 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB157 | ND | 0.0019 | 0.00072 | 1.00 | |
| PCB167 | ND | 0.0019 | 0.00083 | 1.00 | |
| PCB168 | ND | 0.0019 | 0.00032 | 1.00 | |
| PCB169 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB170 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB177 | ND | 0.0019 | 0.00055 | 1.00 | |
| PCB180 | ND | 0.0019 | 0.00069 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 10/01/14
Work Order: 14-10-0029
Preparation: EPA 3510C
Method: EPA 8270C SIM PCB Congeners
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|-----------------|-----------------------|-------------------|-----------|-------------------|
| PCB183 | ND | 0.0019 | 0.00051 | 1.00 | |
| PCB187 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB189 | ND | 0.0019 | 0.00038 | 1.00 | |
| PCB194 | ND | 0.0019 | 0.00040 | 1.00 | |
| PCB195 | ND | 0.0019 | 0.00034 | 1.00 | |
| PCB201 | ND | 0.0019 | 0.00070 | 1.00 | |
| PCB206 | ND | 0.0019 | 0.00025 | 1.00 | |
| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> | | |
| 2-Fluorobiphenyl | 73 | 50-150 | | | |
| p-Terphenyl-d14 | 83 | 50-150 | | | |

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

| | | |
|------------------------------|----------------|-----------------------------|
| ANCHOR QEA, LLC | Date Received: | 10/01/14 |
| 27201 Puerta Real, Suite 350 | Work Order: | 14-10-0029 |
| Mission Viejo, CA 92691-8306 | Preparation: | EPA 3510C |
| | Method: | EPA 8270C SIM PCB Congeners |
| | Units: | ug/L |

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OA-RW-09-G-S-20140930 | 14-10-0029-4-B | 09/30/14 09:32 | Sea Water | GC/MS HHH | 10/04/14 | 10/09/14 21:00 | 141004L02 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------|--------|--------|---------|------|------------|
| PCB018 | ND | 0.0019 | 0.00040 | 1.00 | |
| PCB028 | ND | 0.0019 | 0.00064 | 1.00 | |
| PCB037 | ND | 0.0019 | 0.00046 | 1.00 | |
| PCB044 | ND | 0.0019 | 0.00075 | 1.00 | |
| PCB049 | ND | 0.0019 | 0.00075 | 1.00 | |
| PCB052 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB066 | ND | 0.0019 | 0.00055 | 1.00 | |
| PCB070 | ND | 0.0019 | 0.00037 | 1.00 | |
| PCB074 | ND | 0.0019 | 0.00041 | 1.00 | |
| PCB077 | ND | 0.0019 | 0.00063 | 1.00 | |
| PCB081 | ND | 0.0019 | 0.00047 | 1.00 | |
| PCB087 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB099 | ND | 0.0019 | 0.00058 | 1.00 | |
| PCB101 | ND | 0.0019 | 0.00056 | 1.00 | |
| PCB105 | ND | 0.0019 | 0.00036 | 1.00 | |
| PCB110 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB114 | ND | 0.0019 | 0.00042 | 1.00 | |
| PCB118 | ND | 0.0019 | 0.00047 | 1.00 | |
| PCB119 | ND | 0.0019 | 0.00041 | 1.00 | |
| PCB123 | ND | 0.0019 | 0.00074 | 1.00 | |
| PCB126 | ND | 0.0019 | 0.00052 | 1.00 | |
| PCB128 | ND | 0.0019 | 0.00068 | 1.00 | |
| PCB132/153 | ND | 0.0038 | 0.0011 | 1.00 | |
| PCB138/158 | ND | 0.0038 | 0.0011 | 1.00 | |
| PCB149 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB151 | ND | 0.0019 | 0.00059 | 1.00 | |
| PCB156 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB157 | ND | 0.0019 | 0.00072 | 1.00 | |
| PCB167 | ND | 0.0019 | 0.00083 | 1.00 | |
| PCB168 | ND | 0.0019 | 0.00032 | 1.00 | |
| PCB169 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB170 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB177 | ND | 0.0019 | 0.00055 | 1.00 | |
| PCB180 | ND | 0.0019 | 0.00069 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 10/01/14
 Work Order: 14-10-0029
 Preparation: EPA 3510C
 Method: EPA 8270C SIM PCB Congeners
 Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|-----------------|-----------------------|-------------------|-----------|-------------------|
| PCB183 | ND | 0.0019 | 0.00051 | 1.00 | |
| PCB187 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB189 | ND | 0.0019 | 0.00038 | 1.00 | |
| PCB194 | ND | 0.0019 | 0.00040 | 1.00 | |
| PCB195 | ND | 0.0019 | 0.00034 | 1.00 | |
| PCB201 | ND | 0.0019 | 0.00070 | 1.00 | |
| PCB206 | ND | 0.0019 | 0.00025 | 1.00 | |
| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> | | |
| 2-Fluorobiphenyl | 81 | 50-150 | | | |
| p-Terphenyl-d14 | 89 | 50-150 | | | |


 Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

| | | |
|------------------------------|----------------|-----------------------------|
| ANCHOR QEA, LLC | Date Received: | 10/01/14 |
| 27201 Puerta Real, Suite 350 | Work Order: | 14-10-0029 |
| Mission Viejo, CA 92691-8306 | Preparation: | EPA 3510C |
| | Method: | EPA 8270C SIM PCB Congeners |
| | Units: | ug/L |

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OA-RW-08-G-S-20140930 | 14-10-0029-7-B | 09/30/14 10:10 | Sea Water | GC/MS HHH | 10/04/14 | 10/09/14 21:26 | 141004L02 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|---------------|-----------|------------|-----------|-------------------|
| PCB018 | ND | 0.0019 | 0.00040 | 1.00 | |
| PCB028 | ND | 0.0019 | 0.00063 | 1.00 | |
| PCB037 | ND | 0.0019 | 0.00046 | 1.00 | |
| PCB044 | ND | 0.0019 | 0.00074 | 1.00 | |
| PCB049 | ND | 0.0019 | 0.00074 | 1.00 | |
| PCB052 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB066 | ND | 0.0019 | 0.00055 | 1.00 | |
| PCB070 | ND | 0.0019 | 0.00036 | 1.00 | |
| PCB074 | ND | 0.0019 | 0.00041 | 1.00 | |
| PCB077 | ND | 0.0019 | 0.00062 | 1.00 | |
| PCB081 | ND | 0.0019 | 0.00046 | 1.00 | |
| PCB087 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB099 | ND | 0.0019 | 0.00058 | 1.00 | |
| PCB101 | ND | 0.0019 | 0.00055 | 1.00 | |
| PCB105 | ND | 0.0019 | 0.00036 | 1.00 | |
| PCB110 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB114 | ND | 0.0019 | 0.00042 | 1.00 | |
| PCB118 | ND | 0.0019 | 0.00047 | 1.00 | |
| PCB119 | ND | 0.0019 | 0.00041 | 1.00 | |
| PCB123 | ND | 0.0019 | 0.00073 | 1.00 | |
| PCB126 | ND | 0.0019 | 0.00052 | 1.00 | |
| PCB128 | ND | 0.0019 | 0.00067 | 1.00 | |
| PCB132/153 | ND | 0.0038 | 0.0011 | 1.00 | |
| PCB138/158 | ND | 0.0038 | 0.0011 | 1.00 | |
| PCB149 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB151 | ND | 0.0019 | 0.00058 | 1.00 | |
| PCB156 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB157 | ND | 0.0019 | 0.00072 | 1.00 | |
| PCB167 | ND | 0.0019 | 0.00083 | 1.00 | |
| PCB168 | ND | 0.0019 | 0.00031 | 1.00 | |
| PCB169 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB170 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB177 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB180 | ND | 0.0019 | 0.00068 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 10/01/14
 Work Order: 14-10-0029
 Preparation: EPA 3510C
 Method: EPA 8270C SIM PCB Congeners
 Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|-----------------|-----------------------|-------------------|-----------|-------------------|
| PCB183 | ND | 0.0019 | 0.00051 | 1.00 | |
| PCB187 | ND | 0.0019 | 0.00053 | 1.00 | |
| PCB189 | ND | 0.0019 | 0.00038 | 1.00 | |
| PCB194 | ND | 0.0019 | 0.00040 | 1.00 | |
| PCB195 | ND | 0.0019 | 0.00034 | 1.00 | |
| PCB201 | ND | 0.0019 | 0.00069 | 1.00 | |
| PCB206 | ND | 0.0019 | 0.00024 | 1.00 | |
| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> | | |
| 2-Fluorobiphenyl | 74 | 50-150 | | | |
| p-Terphenyl-d14 | 82 | 50-150 | | | |

Return to Contents 

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 10/01/14
Work Order: 14-10-0029
Preparation: EPA 3510C
Method: EPA 8270C SIM PCB Congeners
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-------------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OA-RW-1008-G-S-20140930 | 14-10-0029-8-A | 09/30/14 10:10 | Sea Water | GC/MS HHH | 10/04/14 | 10/09/14 21:52 | 141004L02 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------|--------|--------|---------|------|------------|
| PCB018 | ND | 0.0019 | 0.00040 | 1.00 | |
| PCB028 | ND | 0.0019 | 0.00064 | 1.00 | |
| PCB037 | ND | 0.0019 | 0.00046 | 1.00 | |
| PCB044 | ND | 0.0019 | 0.00076 | 1.00 | |
| PCB049 | ND | 0.0019 | 0.00076 | 1.00 | |
| PCB052 | ND | 0.0019 | 0.00050 | 1.00 | |
| PCB066 | ND | 0.0019 | 0.00056 | 1.00 | |
| PCB070 | ND | 0.0019 | 0.00037 | 1.00 | |
| PCB074 | ND | 0.0019 | 0.00042 | 1.00 | |
| PCB077 | ND | 0.0019 | 0.00063 | 1.00 | |
| PCB081 | ND | 0.0019 | 0.00047 | 1.00 | |
| PCB087 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB099 | ND | 0.0019 | 0.00059 | 1.00 | |
| PCB101 | ND | 0.0019 | 0.00056 | 1.00 | |
| PCB105 | ND | 0.0019 | 0.00037 | 1.00 | |
| PCB110 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB114 | ND | 0.0019 | 0.00043 | 1.00 | |
| PCB118 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB119 | ND | 0.0019 | 0.00042 | 1.00 | |
| PCB123 | ND | 0.0019 | 0.00074 | 1.00 | |
| PCB126 | ND | 0.0019 | 0.00053 | 1.00 | |
| PCB128 | ND | 0.0019 | 0.00068 | 1.00 | |
| PCB132/153 | ND | 0.0039 | 0.0011 | 1.00 | |
| PCB138/158 | ND | 0.0039 | 0.0011 | 1.00 | |
| PCB149 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB151 | ND | 0.0019 | 0.00059 | 1.00 | |
| PCB156 | ND | 0.0019 | 0.00050 | 1.00 | |
| PCB157 | ND | 0.0019 | 0.00073 | 1.00 | |
| PCB167 | ND | 0.0019 | 0.00084 | 1.00 | |
| PCB168 | ND | 0.0019 | 0.00032 | 1.00 | |
| PCB169 | ND | 0.0019 | 0.00055 | 1.00 | |
| PCB170 | ND | 0.0019 | 0.00055 | 1.00 | |
| PCB177 | ND | 0.0019 | 0.00055 | 1.00 | |
| PCB180 | ND | 0.0019 | 0.00070 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 10/01/14
 Work Order: 14-10-0029
 Preparation: EPA 3510C
 Method: EPA 8270C SIM PCB Congeners
 Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|-----------------|-----------------------|-------------------|-----------|-------------------|
| PCB183 | ND | 0.0019 | 0.00052 | 1.00 | |
| PCB187 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB189 | ND | 0.0019 | 0.00039 | 1.00 | |
| PCB194 | ND | 0.0019 | 0.00041 | 1.00 | |
| PCB195 | ND | 0.0019 | 0.00034 | 1.00 | |
| PCB201 | ND | 0.0019 | 0.00070 | 1.00 | |
| PCB206 | ND | 0.0019 | 0.00025 | 1.00 | |
| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> | | |
| 2-Fluorobiphenyl | 76 | 50-150 | | | |
| p-Terphenyl-d14 | 83 | 50-150 | | | |

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 10/01/14
Work Order: 14-10-0029
Preparation: EPA 3510C
Method: EPA 8270C SIM PCB Congeners
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| CS-RW-01-G-S-20140930 | 14-10-0029-11-F | 09/30/14 12:05 | Sea Water | GC/MS HHH | 10/04/14 | 10/09/14 22:19 | 141004L02 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------|--------|--------|---------|------|------------|
| PCB018 | ND | 0.0019 | 0.00040 | 1.00 | |
| PCB028 | ND | 0.0019 | 0.00064 | 1.00 | |
| PCB037 | ND | 0.0019 | 0.00046 | 1.00 | |
| PCB044 | ND | 0.0019 | 0.00075 | 1.00 | |
| PCB049 | ND | 0.0019 | 0.00075 | 1.00 | |
| PCB052 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB066 | ND | 0.0019 | 0.00055 | 1.00 | |
| PCB070 | ND | 0.0019 | 0.00037 | 1.00 | |
| PCB074 | ND | 0.0019 | 0.00041 | 1.00 | |
| PCB077 | ND | 0.0019 | 0.00063 | 1.00 | |
| PCB081 | ND | 0.0019 | 0.00047 | 1.00 | |
| PCB087 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB099 | ND | 0.0019 | 0.00058 | 1.00 | |
| PCB101 | ND | 0.0019 | 0.00056 | 1.00 | |
| PCB105 | ND | 0.0019 | 0.00036 | 1.00 | |
| PCB110 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB114 | ND | 0.0019 | 0.00042 | 1.00 | |
| PCB118 | ND | 0.0019 | 0.00047 | 1.00 | |
| PCB119 | ND | 0.0019 | 0.00041 | 1.00 | |
| PCB123 | ND | 0.0019 | 0.00074 | 1.00 | |
| PCB126 | ND | 0.0019 | 0.00052 | 1.00 | |
| PCB128 | ND | 0.0019 | 0.00068 | 1.00 | |
| PCB132/153 | ND | 0.0038 | 0.0011 | 1.00 | |
| PCB138/158 | ND | 0.0038 | 0.0011 | 1.00 | |
| PCB149 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB151 | ND | 0.0019 | 0.00059 | 1.00 | |
| PCB156 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB157 | ND | 0.0019 | 0.00072 | 1.00 | |
| PCB167 | ND | 0.0019 | 0.00083 | 1.00 | |
| PCB168 | ND | 0.0019 | 0.00032 | 1.00 | |
| PCB169 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB170 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB177 | ND | 0.0019 | 0.00055 | 1.00 | |
| PCB180 | ND | 0.0019 | 0.00069 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 10/01/14
 Work Order: 14-10-0029
 Preparation: EPA 3510C
 Method: EPA 8270C SIM PCB Congeners
 Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|-----------------|-----------------------|-------------------|-----------|-------------------|
| PCB183 | ND | 0.0019 | 0.00051 | 1.00 | |
| PCB187 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB189 | ND | 0.0019 | 0.00038 | 1.00 | |
| PCB194 | ND | 0.0019 | 0.00040 | 1.00 | |
| PCB195 | ND | 0.0019 | 0.00034 | 1.00 | |
| PCB201 | ND | 0.0019 | 0.00070 | 1.00 | |
| PCB206 | ND | 0.0019 | 0.00025 | 1.00 | |
| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> | | |
| 2-Fluorobiphenyl | 82 | 50-150 | | | |
| p-Terphenyl-d14 | 92 | 50-150 | | | |



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 10/01/14
Work Order: 14-10-0029
Preparation: EPA 3510C
Method: EPA 8270C SIM PCB Congeners
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| EB-20140930 | 14-10-0029-14-B | 09/30/14 11:22 | Sea Water | GC/MS HHH | 10/04/14 | 10/09/14 22:45 | 141004L02 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------|--------|--------|---------|------|------------|
| PCB018 | ND | 0.0020 | 0.00041 | 1.00 | |
| PCB028 | ND | 0.0020 | 0.00065 | 1.00 | |
| PCB037 | ND | 0.0020 | 0.00047 | 1.00 | |
| PCB044 | ND | 0.0020 | 0.00076 | 1.00 | |
| PCB049 | ND | 0.0020 | 0.00077 | 1.00 | |
| PCB052 | ND | 0.0020 | 0.00050 | 1.00 | |
| PCB066 | ND | 0.0020 | 0.00056 | 1.00 | |
| PCB070 | ND | 0.0020 | 0.00037 | 1.00 | |
| PCB074 | ND | 0.0020 | 0.00042 | 1.00 | |
| PCB077 | ND | 0.0020 | 0.00064 | 1.00 | |
| PCB081 | ND | 0.0020 | 0.00047 | 1.00 | |
| PCB087 | ND | 0.0020 | 0.00049 | 1.00 | |
| PCB099 | ND | 0.0020 | 0.00059 | 1.00 | |
| PCB101 | ND | 0.0020 | 0.00057 | 1.00 | |
| PCB105 | ND | 0.0020 | 0.00037 | 1.00 | |
| PCB110 | ND | 0.0020 | 0.00049 | 1.00 | |
| PCB114 | ND | 0.0020 | 0.00043 | 1.00 | |
| PCB118 | ND | 0.0020 | 0.00048 | 1.00 | |
| PCB119 | ND | 0.0020 | 0.00042 | 1.00 | |
| PCB123 | ND | 0.0020 | 0.00075 | 1.00 | |
| PCB126 | ND | 0.0020 | 0.00053 | 1.00 | |
| PCB128 | ND | 0.0020 | 0.00069 | 1.00 | |
| PCB132/153 | ND | 0.0039 | 0.0012 | 1.00 | |
| PCB138/158 | ND | 0.0039 | 0.0011 | 1.00 | |
| PCB149 | ND | 0.0020 | 0.00050 | 1.00 | |
| PCB151 | ND | 0.0020 | 0.00060 | 1.00 | |
| PCB156 | ND | 0.0020 | 0.00050 | 1.00 | |
| PCB157 | ND | 0.0020 | 0.00074 | 1.00 | |
| PCB167 | ND | 0.0020 | 0.00085 | 1.00 | |
| PCB168 | ND | 0.0020 | 0.00032 | 1.00 | |
| PCB169 | ND | 0.0020 | 0.00055 | 1.00 | |
| PCB170 | ND | 0.0020 | 0.00055 | 1.00 | |
| PCB177 | ND | 0.0020 | 0.00056 | 1.00 | |
| PCB180 | ND | 0.0020 | 0.00070 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 10/01/14
 Work Order: 14-10-0029
 Preparation: EPA 3510C
 Method: EPA 8270C SIM PCB Congeners
 Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|-----------------|-----------------------|-------------------|-----------|-------------------|
| PCB183 | ND | 0.0020 | 0.00052 | 1.00 | |
| PCB187 | ND | 0.0020 | 0.00055 | 1.00 | |
| PCB189 | ND | 0.0020 | 0.00039 | 1.00 | |
| PCB194 | ND | 0.0020 | 0.00041 | 1.00 | |
| PCB195 | ND | 0.0020 | 0.00035 | 1.00 | |
| PCB201 | ND | 0.0020 | 0.00071 | 1.00 | |
| PCB206 | ND | 0.0020 | 0.00025 | 1.00 | |
| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> | | |
| 2-Fluorobiphenyl | 90 | 50-150 | | | |
| p-Terphenyl-d14 | 102 | 50-150 | | | |

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 10/01/14
Work Order: 14-10-0029
Preparation: EPA 3510C
Method: EPA 8270C SIM PCB Congeners
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-02-G-S-20140930 | 14-10-0029-16-C | 09/30/14 13:00 | Sea Water | GC/MS HHH | 10/04/14 | 10/09/14 23:11 | 141004L02 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------|--------|--------|---------|------|------------|
| PCB018 | ND | 0.0019 | 0.00040 | 1.00 | |
| PCB028 | ND | 0.0019 | 0.00063 | 1.00 | |
| PCB037 | ND | 0.0019 | 0.00046 | 1.00 | |
| PCB044 | ND | 0.0019 | 0.00074 | 1.00 | |
| PCB049 | ND | 0.0019 | 0.00074 | 1.00 | |
| PCB052 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB066 | ND | 0.0019 | 0.00055 | 1.00 | |
| PCB070 | ND | 0.0019 | 0.00036 | 1.00 | |
| PCB074 | ND | 0.0019 | 0.00041 | 1.00 | |
| PCB077 | ND | 0.0019 | 0.00062 | 1.00 | |
| PCB081 | ND | 0.0019 | 0.00046 | 1.00 | |
| PCB087 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB099 | ND | 0.0019 | 0.00058 | 1.00 | |
| PCB101 | ND | 0.0019 | 0.00055 | 1.00 | |
| PCB105 | ND | 0.0019 | 0.00036 | 1.00 | |
| PCB110 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB114 | ND | 0.0019 | 0.00042 | 1.00 | |
| PCB118 | ND | 0.0019 | 0.00047 | 1.00 | |
| PCB119 | ND | 0.0019 | 0.00041 | 1.00 | |
| PCB123 | ND | 0.0019 | 0.00073 | 1.00 | |
| PCB126 | ND | 0.0019 | 0.00052 | 1.00 | |
| PCB128 | ND | 0.0019 | 0.00067 | 1.00 | |
| PCB132/153 | ND | 0.0038 | 0.0011 | 1.00 | |
| PCB138/158 | ND | 0.0038 | 0.0011 | 1.00 | |
| PCB149 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB151 | ND | 0.0019 | 0.00058 | 1.00 | |
| PCB156 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB157 | ND | 0.0019 | 0.00072 | 1.00 | |
| PCB167 | ND | 0.0019 | 0.00083 | 1.00 | |
| PCB168 | ND | 0.0019 | 0.00031 | 1.00 | |
| PCB169 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB170 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB177 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB180 | ND | 0.0019 | 0.00068 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 10/01/14
 Work Order: 14-10-0029
 Preparation: EPA 3510C
 Method: EPA 8270C SIM PCB Congeners
 Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|-----------------|-----------------------|-------------------|-----------|-------------------|
| PCB183 | ND | 0.0019 | 0.00051 | 1.00 | |
| PCB187 | ND | 0.0019 | 0.00053 | 1.00 | |
| PCB189 | ND | 0.0019 | 0.00038 | 1.00 | |
| PCB194 | ND | 0.0019 | 0.00040 | 1.00 | |
| PCB195 | ND | 0.0019 | 0.00034 | 1.00 | |
| PCB201 | ND | 0.0019 | 0.00069 | 1.00 | |
| PCB206 | ND | 0.0019 | 0.00024 | 1.00 | |
| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> | | |
| 2-Fluorobiphenyl | 81 | 50-150 | | | |
| p-Terphenyl-d14 | 91 | 50-150 | | | |

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 10/01/14
Work Order: 14-10-0029
Preparation: EPA 3510C
Method: EPA 8270C SIM PCB Congeners
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-04-G-S-20140930 | 14-10-0029-19-C | 09/30/14 13:43 | Sea Water | GC/MS HHH | 10/04/14 | 10/09/14 23:37 | 141004L02 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------|--------|--------|---------|------|------------|
| PCB018 | ND | 0.0019 | 0.00040 | 1.00 | |
| PCB028 | ND | 0.0019 | 0.00063 | 1.00 | |
| PCB037 | ND | 0.0019 | 0.00046 | 1.00 | |
| PCB044 | ND | 0.0019 | 0.00074 | 1.00 | |
| PCB049 | ND | 0.0019 | 0.00074 | 1.00 | |
| PCB052 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB066 | ND | 0.0019 | 0.00055 | 1.00 | |
| PCB070 | ND | 0.0019 | 0.00036 | 1.00 | |
| PCB074 | ND | 0.0019 | 0.00041 | 1.00 | |
| PCB077 | ND | 0.0019 | 0.00062 | 1.00 | |
| PCB081 | ND | 0.0019 | 0.00046 | 1.00 | |
| PCB087 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB099 | ND | 0.0019 | 0.00058 | 1.00 | |
| PCB101 | ND | 0.0019 | 0.00055 | 1.00 | |
| PCB105 | ND | 0.0019 | 0.00036 | 1.00 | |
| PCB110 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB114 | ND | 0.0019 | 0.00042 | 1.00 | |
| PCB118 | ND | 0.0019 | 0.00047 | 1.00 | |
| PCB119 | ND | 0.0019 | 0.00041 | 1.00 | |
| PCB123 | ND | 0.0019 | 0.00073 | 1.00 | |
| PCB126 | ND | 0.0019 | 0.00052 | 1.00 | |
| PCB128 | ND | 0.0019 | 0.00067 | 1.00 | |
| PCB132/153 | ND | 0.0038 | 0.0011 | 1.00 | |
| PCB138/158 | ND | 0.0038 | 0.0011 | 1.00 | |
| PCB149 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB151 | ND | 0.0019 | 0.00058 | 1.00 | |
| PCB156 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB157 | ND | 0.0019 | 0.00072 | 1.00 | |
| PCB167 | ND | 0.0019 | 0.00083 | 1.00 | |
| PCB168 | ND | 0.0019 | 0.00031 | 1.00 | |
| PCB169 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB170 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB177 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB180 | ND | 0.0019 | 0.00068 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 10/01/14
 Work Order: 14-10-0029
 Preparation: EPA 3510C
 Method: EPA 8270C SIM PCB Congeners
 Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|-----------------|-----------------------|-------------------|-----------|-------------------|
| PCB183 | ND | 0.0019 | 0.00051 | 1.00 | |
| PCB187 | ND | 0.0019 | 0.00053 | 1.00 | |
| PCB189 | ND | 0.0019 | 0.00038 | 1.00 | |
| PCB194 | ND | 0.0019 | 0.00040 | 1.00 | |
| PCB195 | ND | 0.0019 | 0.00034 | 1.00 | |
| PCB201 | ND | 0.0019 | 0.00069 | 1.00 | |
| PCB206 | ND | 0.0019 | 0.00024 | 1.00 | |
| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> | | |
| 2-Fluorobiphenyl | 78 | 50-150 | | | |
| p-Terphenyl-d14 | 95 | 50-150 | | | |

Return to Contents 

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 10/01/14
Work Order: 14-10-0029
Preparation: EPA 3510C
Method: EPA 8270C SIM PCB Congeners
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-03-G-S-20140930 | 14-10-0029-22-B | 09/30/14 14:13 | Sea Water | GC/MS HHH | 10/04/14 | 10/10/14 00:03 | 141004L02 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------|--------|--------|---------|------|------------|
| PCB018 | ND | 0.0019 | 0.00040 | 1.00 | |
| PCB028 | ND | 0.0019 | 0.00064 | 1.00 | |
| PCB037 | ND | 0.0019 | 0.00046 | 1.00 | |
| PCB044 | ND | 0.0019 | 0.00075 | 1.00 | |
| PCB049 | ND | 0.0019 | 0.00075 | 1.00 | |
| PCB052 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB066 | ND | 0.0019 | 0.00055 | 1.00 | |
| PCB070 | ND | 0.0019 | 0.00037 | 1.00 | |
| PCB074 | ND | 0.0019 | 0.00041 | 1.00 | |
| PCB077 | ND | 0.0019 | 0.00063 | 1.00 | |
| PCB081 | ND | 0.0019 | 0.00047 | 1.00 | |
| PCB087 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB099 | ND | 0.0019 | 0.00058 | 1.00 | |
| PCB101 | ND | 0.0019 | 0.00056 | 1.00 | |
| PCB105 | ND | 0.0019 | 0.00036 | 1.00 | |
| PCB110 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB114 | ND | 0.0019 | 0.00042 | 1.00 | |
| PCB118 | ND | 0.0019 | 0.00047 | 1.00 | |
| PCB119 | ND | 0.0019 | 0.00041 | 1.00 | |
| PCB123 | ND | 0.0019 | 0.00074 | 1.00 | |
| PCB126 | ND | 0.0019 | 0.00052 | 1.00 | |
| PCB128 | ND | 0.0019 | 0.00068 | 1.00 | |
| PCB132/153 | ND | 0.0038 | 0.0011 | 1.00 | |
| PCB138/158 | ND | 0.0038 | 0.0011 | 1.00 | |
| PCB149 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB151 | ND | 0.0019 | 0.00059 | 1.00 | |
| PCB156 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB157 | ND | 0.0019 | 0.00072 | 1.00 | |
| PCB167 | ND | 0.0019 | 0.00083 | 1.00 | |
| PCB168 | ND | 0.0019 | 0.00032 | 1.00 | |
| PCB169 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB170 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB177 | ND | 0.0019 | 0.00055 | 1.00 | |
| PCB180 | ND | 0.0019 | 0.00069 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 10/01/14
 Work Order: 14-10-0029
 Preparation: EPA 3510C
 Method: EPA 8270C SIM PCB Congeners
 Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|-----------------|-----------------------|-------------------|-----------|-------------------|
| PCB183 | ND | 0.0019 | 0.00051 | 1.00 | |
| PCB187 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB189 | ND | 0.0019 | 0.00038 | 1.00 | |
| PCB194 | ND | 0.0019 | 0.00040 | 1.00 | |
| PCB195 | ND | 0.0019 | 0.00034 | 1.00 | |
| PCB201 | ND | 0.0019 | 0.00070 | 1.00 | |
| PCB206 | ND | 0.0019 | 0.00025 | 1.00 | |
| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> | | |
| 2-Fluorobiphenyl | 74 | 50-150 | | | |
| p-Terphenyl-d14 | 81 | 50-150 | | | |

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

| | | |
|------------------------------|----------------|-----------------------------|
| ANCHOR QEA, LLC | Date Received: | 10/01/14 |
| 27201 Puerta Real, Suite 350 | Work Order: | 14-10-0029 |
| Mission Viejo, CA 92691-8306 | Preparation: | EPA 3510C |
| | Method: | EPA 8270C SIM PCB Congeners |
| | Units: | ug/L |

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-06-G-S-20140930 | 14-10-0029-25-C | 09/30/14 15:50 | Sea Water | GC/MS HHH | 10/04/14 | 10/10/14 00:29 | 141004L02 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|---------------|-----------|------------|-----------|-------------------|
| PCB018 | ND | 0.0019 | 0.00040 | 1.00 | |
| PCB028 | ND | 0.0019 | 0.00063 | 1.00 | |
| PCB037 | ND | 0.0019 | 0.00046 | 1.00 | |
| PCB044 | ND | 0.0019 | 0.00074 | 1.00 | |
| PCB049 | ND | 0.0019 | 0.00074 | 1.00 | |
| PCB052 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB066 | ND | 0.0019 | 0.00055 | 1.00 | |
| PCB070 | ND | 0.0019 | 0.00036 | 1.00 | |
| PCB074 | ND | 0.0019 | 0.00041 | 1.00 | |
| PCB077 | ND | 0.0019 | 0.00062 | 1.00 | |
| PCB081 | ND | 0.0019 | 0.00046 | 1.00 | |
| PCB087 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB099 | ND | 0.0019 | 0.00058 | 1.00 | |
| PCB101 | ND | 0.0019 | 0.00055 | 1.00 | |
| PCB105 | ND | 0.0019 | 0.00036 | 1.00 | |
| PCB110 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB114 | ND | 0.0019 | 0.00042 | 1.00 | |
| PCB118 | ND | 0.0019 | 0.00047 | 1.00 | |
| PCB119 | ND | 0.0019 | 0.00041 | 1.00 | |
| PCB123 | ND | 0.0019 | 0.00073 | 1.00 | |
| PCB126 | ND | 0.0019 | 0.00052 | 1.00 | |
| PCB128 | ND | 0.0019 | 0.00067 | 1.00 | |
| PCB132/153 | ND | 0.0038 | 0.0011 | 1.00 | |
| PCB138/158 | ND | 0.0038 | 0.0011 | 1.00 | |
| PCB149 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB151 | ND | 0.0019 | 0.00058 | 1.00 | |
| PCB156 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB157 | ND | 0.0019 | 0.00072 | 1.00 | |
| PCB167 | ND | 0.0019 | 0.00083 | 1.00 | |
| PCB168 | ND | 0.0019 | 0.00031 | 1.00 | |
| PCB169 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB170 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB177 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB180 | ND | 0.0019 | 0.00068 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 10/01/14
Work Order: 14-10-0029
Preparation: EPA 3510C
Method: EPA 8270C SIM PCB Congeners
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|-----------------|-----------------------|-------------------|-----------|-------------------|
| PCB183 | ND | 0.0019 | 0.00051 | 1.00 | |
| PCB187 | ND | 0.0019 | 0.00053 | 1.00 | |
| PCB189 | ND | 0.0019 | 0.00038 | 1.00 | |
| PCB194 | ND | 0.0019 | 0.00040 | 1.00 | |
| PCB195 | ND | 0.0019 | 0.00034 | 1.00 | |
| PCB201 | ND | 0.0019 | 0.00069 | 1.00 | |
| PCB206 | ND | 0.0019 | 0.00024 | 1.00 | |
| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> | | |
| 2-Fluorobiphenyl | 77 | 50-150 | | | |
| p-Terphenyl-d14 | 84 | 50-150 | | | |

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 10/01/14
Work Order: 14-10-0029
Preparation: EPA 3510C
Method: EPA 8270C SIM PCB Congeners
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| FH-RW-07-G-S-20140930 | 14-10-0029-29-A | 09/30/14 16:30 | Sea Water | GC/MS HHH | 10/04/14 | 10/10/14 00:55 | 141004L02 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------|--------|--------|---------|------|------------|
| PCB018 | ND | 0.0019 | 0.00040 | 1.00 | |
| PCB028 | ND | 0.0019 | 0.00063 | 1.00 | |
| PCB037 | ND | 0.0019 | 0.00046 | 1.00 | |
| PCB044 | ND | 0.0019 | 0.00074 | 1.00 | |
| PCB049 | ND | 0.0019 | 0.00074 | 1.00 | |
| PCB052 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB066 | ND | 0.0019 | 0.00055 | 1.00 | |
| PCB070 | ND | 0.0019 | 0.00036 | 1.00 | |
| PCB074 | ND | 0.0019 | 0.00041 | 1.00 | |
| PCB077 | ND | 0.0019 | 0.00062 | 1.00 | |
| PCB081 | ND | 0.0019 | 0.00046 | 1.00 | |
| PCB087 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB099 | ND | 0.0019 | 0.00058 | 1.00 | |
| PCB101 | ND | 0.0019 | 0.00055 | 1.00 | |
| PCB105 | ND | 0.0019 | 0.00036 | 1.00 | |
| PCB110 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB114 | ND | 0.0019 | 0.00042 | 1.00 | |
| PCB118 | ND | 0.0019 | 0.00047 | 1.00 | |
| PCB119 | ND | 0.0019 | 0.00041 | 1.00 | |
| PCB123 | ND | 0.0019 | 0.00073 | 1.00 | |
| PCB126 | ND | 0.0019 | 0.00052 | 1.00 | |
| PCB128 | ND | 0.0019 | 0.00067 | 1.00 | |
| PCB132/153 | ND | 0.0038 | 0.0011 | 1.00 | |
| PCB138/158 | ND | 0.0038 | 0.0011 | 1.00 | |
| PCB149 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB151 | ND | 0.0019 | 0.00058 | 1.00 | |
| PCB156 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB157 | ND | 0.0019 | 0.00072 | 1.00 | |
| PCB167 | ND | 0.0019 | 0.00083 | 1.00 | |
| PCB168 | ND | 0.0019 | 0.00031 | 1.00 | |
| PCB169 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB170 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB177 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB180 | ND | 0.0019 | 0.00068 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 10/01/14
Work Order: 14-10-0029
Preparation: EPA 3510C
Method: EPA 8270C SIM PCB Congeners
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|-----------------|-----------------------|-------------------|-----------|-------------------|
| PCB183 | ND | 0.0019 | 0.00051 | 1.00 | |
| PCB187 | ND | 0.0019 | 0.00053 | 1.00 | |
| PCB189 | ND | 0.0019 | 0.00038 | 1.00 | |
| PCB194 | ND | 0.0019 | 0.00040 | 1.00 | |
| PCB195 | ND | 0.0019 | 0.00034 | 1.00 | |
| PCB201 | ND | 0.0019 | 0.00069 | 1.00 | |
| PCB206 | ND | 0.0019 | 0.00024 | 1.00 | |
| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> | | |
| 2-Fluorobiphenyl | 76 | 50-150 | | | |
| p-Terphenyl-d14 | 85 | 50-150 | | | |

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 10/01/14
Work Order: 14-10-0029
Preparation: EPA 3510C
Method: EPA 8270C SIM PCB Congeners
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-05-G-S-20140930 | 14-10-0029-32-B | 09/30/14 17:05 | Sea Water | GC/MS HHH | 10/04/14 | 10/10/14 01:21 | 141004L02 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------|--------|--------|---------|------|------------|
| PCB018 | ND | 0.0020 | 0.00041 | 1.00 | |
| PCB028 | ND | 0.0020 | 0.00065 | 1.00 | |
| PCB037 | ND | 0.0020 | 0.00047 | 1.00 | |
| PCB044 | ND | 0.0020 | 0.00076 | 1.00 | |
| PCB049 | ND | 0.0020 | 0.00077 | 1.00 | |
| PCB052 | ND | 0.0020 | 0.00050 | 1.00 | |
| PCB066 | ND | 0.0020 | 0.00056 | 1.00 | |
| PCB070 | ND | 0.0020 | 0.00037 | 1.00 | |
| PCB074 | ND | 0.0020 | 0.00042 | 1.00 | |
| PCB077 | ND | 0.0020 | 0.00064 | 1.00 | |
| PCB081 | ND | 0.0020 | 0.00047 | 1.00 | |
| PCB087 | ND | 0.0020 | 0.00049 | 1.00 | |
| PCB099 | ND | 0.0020 | 0.00059 | 1.00 | |
| PCB101 | ND | 0.0020 | 0.00057 | 1.00 | |
| PCB105 | ND | 0.0020 | 0.00037 | 1.00 | |
| PCB110 | ND | 0.0020 | 0.00049 | 1.00 | |
| PCB114 | ND | 0.0020 | 0.00043 | 1.00 | |
| PCB118 | ND | 0.0020 | 0.00048 | 1.00 | |
| PCB119 | ND | 0.0020 | 0.00042 | 1.00 | |
| PCB123 | ND | 0.0020 | 0.00075 | 1.00 | |
| PCB126 | ND | 0.0020 | 0.00053 | 1.00 | |
| PCB128 | ND | 0.0020 | 0.00069 | 1.00 | |
| PCB132/153 | ND | 0.0039 | 0.0012 | 1.00 | |
| PCB138/158 | ND | 0.0039 | 0.0011 | 1.00 | |
| PCB149 | ND | 0.0020 | 0.00050 | 1.00 | |
| PCB151 | ND | 0.0020 | 0.00060 | 1.00 | |
| PCB156 | ND | 0.0020 | 0.00050 | 1.00 | |
| PCB157 | ND | 0.0020 | 0.00074 | 1.00 | |
| PCB167 | ND | 0.0020 | 0.00085 | 1.00 | |
| PCB168 | ND | 0.0020 | 0.00032 | 1.00 | |
| PCB169 | ND | 0.0020 | 0.00055 | 1.00 | |
| PCB170 | ND | 0.0020 | 0.00055 | 1.00 | |
| PCB177 | ND | 0.0020 | 0.00056 | 1.00 | |
| PCB180 | ND | 0.0020 | 0.00070 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 10/01/14
 Work Order: 14-10-0029
 Preparation: EPA 3510C
 Method: EPA 8270C SIM PCB Congeners
 Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|-----------------|-----------------------|-------------------|-----------|-------------------|
| PCB183 | ND | 0.0020 | 0.00052 | 1.00 | |
| PCB187 | ND | 0.0020 | 0.00055 | 1.00 | |
| PCB189 | ND | 0.0020 | 0.00039 | 1.00 | |
| PCB194 | ND | 0.0020 | 0.00041 | 1.00 | |
| PCB195 | ND | 0.0020 | 0.00035 | 1.00 | |
| PCB201 | ND | 0.0020 | 0.00071 | 1.00 | |
| PCB206 | ND | 0.0020 | 0.00025 | 1.00 | |
| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> | | |
| 2-Fluorobiphenyl | 77 | 50-150 | | | |
| p-Terphenyl-d14 | 87 | 50-150 | | | |


 Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 10/01/14
Work Order: 14-10-0029
Preparation: EPA 3510C
Method: EPA 8270C SIM PCB Congeners
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| CM-RW-10-G-S-20140930 | 14-10-0029-35-A | 09/30/14 17:50 | Sea Water | GC/MS HHH | 10/04/14 | 10/10/14 01:47 | 141004L02 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------|--------|--------|---------|------|------------|
| PCB018 | ND | 0.0019 | 0.00040 | 1.00 | |
| PCB028 | ND | 0.0019 | 0.00064 | 1.00 | |
| PCB037 | ND | 0.0019 | 0.00046 | 1.00 | |
| PCB044 | ND | 0.0019 | 0.00075 | 1.00 | |
| PCB049 | ND | 0.0019 | 0.00075 | 1.00 | |
| PCB052 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB066 | ND | 0.0019 | 0.00055 | 1.00 | |
| PCB070 | ND | 0.0019 | 0.00037 | 1.00 | |
| PCB074 | ND | 0.0019 | 0.00041 | 1.00 | |
| PCB077 | ND | 0.0019 | 0.00063 | 1.00 | |
| PCB081 | ND | 0.0019 | 0.00047 | 1.00 | |
| PCB087 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB099 | ND | 0.0019 | 0.00058 | 1.00 | |
| PCB101 | ND | 0.0019 | 0.00056 | 1.00 | |
| PCB105 | ND | 0.0019 | 0.00036 | 1.00 | |
| PCB110 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB114 | ND | 0.0019 | 0.00042 | 1.00 | |
| PCB118 | ND | 0.0019 | 0.00047 | 1.00 | |
| PCB119 | ND | 0.0019 | 0.00041 | 1.00 | |
| PCB123 | ND | 0.0019 | 0.00074 | 1.00 | |
| PCB126 | ND | 0.0019 | 0.00052 | 1.00 | |
| PCB128 | ND | 0.0019 | 0.00068 | 1.00 | |
| PCB132/153 | ND | 0.0038 | 0.0011 | 1.00 | |
| PCB138/158 | ND | 0.0038 | 0.0011 | 1.00 | |
| PCB149 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB151 | ND | 0.0019 | 0.00059 | 1.00 | |
| PCB156 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB157 | ND | 0.0019 | 0.00072 | 1.00 | |
| PCB167 | ND | 0.0019 | 0.00083 | 1.00 | |
| PCB168 | ND | 0.0019 | 0.00032 | 1.00 | |
| PCB169 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB170 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB177 | ND | 0.0019 | 0.00055 | 1.00 | |
| PCB180 | ND | 0.0019 | 0.00069 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 10/01/14
Work Order: 14-10-0029
Preparation: EPA 3510C
Method: EPA 8270C SIM PCB Congeners
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|-----------------|-----------------------|-------------------|-----------|-------------------|
| PCB183 | ND | 0.0019 | 0.00051 | 1.00 | |
| PCB187 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB189 | ND | 0.0019 | 0.00038 | 1.00 | |
| PCB194 | ND | 0.0019 | 0.00040 | 1.00 | |
| PCB195 | ND | 0.0019 | 0.00034 | 1.00 | |
| PCB201 | ND | 0.0019 | 0.00070 | 1.00 | |
| PCB206 | ND | 0.0019 | 0.00025 | 1.00 | |
| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> | | |
| 2-Fluorobiphenyl | 74 | 50-150 | | | |
| p-Terphenyl-d14 | 84 | 50-150 | | | |

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 10/01/14
Work Order: 14-10-0029
Preparation: EPA 3510C
Method: EPA 8270C SIM PCB Congeners
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-------------------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-03-G-S-20140930 LAB DUP | 14-10-0029-39-A | 09/30/14 14:13 | Sea Water | GC/MS HHH | 10/04/14 | 10/10/14 02:13 | 141004L02 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------|--------|--------|---------|------|------------|
| PCB018 | ND | 0.0019 | 0.00040 | 1.00 | |
| PCB028 | ND | 0.0019 | 0.00064 | 1.00 | |
| PCB037 | ND | 0.0019 | 0.00046 | 1.00 | |
| PCB044 | ND | 0.0019 | 0.00075 | 1.00 | |
| PCB049 | ND | 0.0019 | 0.00075 | 1.00 | |
| PCB052 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB066 | ND | 0.0019 | 0.00055 | 1.00 | |
| PCB070 | ND | 0.0019 | 0.00037 | 1.00 | |
| PCB074 | ND | 0.0019 | 0.00041 | 1.00 | |
| PCB077 | ND | 0.0019 | 0.00063 | 1.00 | |
| PCB081 | ND | 0.0019 | 0.00047 | 1.00 | |
| PCB087 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB099 | ND | 0.0019 | 0.00058 | 1.00 | |
| PCB101 | ND | 0.0019 | 0.00056 | 1.00 | |
| PCB105 | ND | 0.0019 | 0.00036 | 1.00 | |
| PCB110 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB114 | ND | 0.0019 | 0.00042 | 1.00 | |
| PCB118 | ND | 0.0019 | 0.00047 | 1.00 | |
| PCB119 | ND | 0.0019 | 0.00041 | 1.00 | |
| PCB123 | ND | 0.0019 | 0.00074 | 1.00 | |
| PCB126 | ND | 0.0019 | 0.00052 | 1.00 | |
| PCB128 | ND | 0.0019 | 0.00068 | 1.00 | |
| PCB132/153 | ND | 0.0038 | 0.0011 | 1.00 | |
| PCB138/158 | ND | 0.0038 | 0.0011 | 1.00 | |
| PCB149 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB151 | ND | 0.0019 | 0.00059 | 1.00 | |
| PCB156 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB157 | ND | 0.0019 | 0.00072 | 1.00 | |
| PCB167 | ND | 0.0019 | 0.00083 | 1.00 | |
| PCB168 | ND | 0.0019 | 0.00032 | 1.00 | |
| PCB169 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB170 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB177 | ND | 0.0019 | 0.00055 | 1.00 | |
| PCB180 | ND | 0.0019 | 0.00069 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 10/01/14
 Work Order: 14-10-0029
 Preparation: EPA 3510C
 Method: EPA 8270C SIM PCB Congeners
 Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|-----------------|-----------------------|-------------------|-----------|-------------------|
| PCB183 | ND | 0.0019 | 0.00051 | 1.00 | |
| PCB187 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB189 | ND | 0.0019 | 0.00038 | 1.00 | |
| PCB194 | ND | 0.0019 | 0.00040 | 1.00 | |
| PCB195 | ND | 0.0019 | 0.00034 | 1.00 | |
| PCB201 | ND | 0.0019 | 0.00070 | 1.00 | |
| PCB206 | ND | 0.0019 | 0.00025 | 1.00 | |
| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> | | |
| 2-Fluorobiphenyl | 66 | 50-150 | | | |
| p-Terphenyl-d14 | 80 | 50-150 | | | |

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 10/01/14
Work Order: 14-10-0029
Preparation: EPA 3510C
Method: EPA 8270C SIM PCB Congeners
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|---------|------------|---------------|--------------------|-------------|
| Method Blank | 099-16-414-9 | N/A | Aqueous | GC/MS HHH | 10/04/14 | 10/10/14 02:39 | 141004L02 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------|--------|--------|---------|------|------------|
| PCB018 | ND | 0.0020 | 0.00042 | 1.00 | |
| PCB028 | ND | 0.0020 | 0.00066 | 1.00 | |
| PCB037 | ND | 0.0020 | 0.00048 | 1.00 | |
| PCB044 | ND | 0.0020 | 0.00078 | 1.00 | |
| PCB049 | ND | 0.0020 | 0.00078 | 1.00 | |
| PCB052 | ND | 0.0020 | 0.00051 | 1.00 | |
| PCB066 | ND | 0.0020 | 0.00057 | 1.00 | |
| PCB070 | ND | 0.0020 | 0.00038 | 1.00 | |
| PCB074 | ND | 0.0020 | 0.00043 | 1.00 | |
| PCB077 | ND | 0.0020 | 0.00065 | 1.00 | |
| PCB081 | ND | 0.0020 | 0.00048 | 1.00 | |
| PCB087 | ND | 0.0020 | 0.00050 | 1.00 | |
| PCB099 | ND | 0.0020 | 0.00060 | 1.00 | |
| PCB101 | ND | 0.0020 | 0.00058 | 1.00 | |
| PCB105 | ND | 0.0020 | 0.00038 | 1.00 | |
| PCB110 | ND | 0.0020 | 0.00050 | 1.00 | |
| PCB114 | ND | 0.0020 | 0.00044 | 1.00 | |
| PCB118 | ND | 0.0020 | 0.00049 | 1.00 | |
| PCB119 | ND | 0.0020 | 0.00043 | 1.00 | |
| PCB123 | ND | 0.0020 | 0.00077 | 1.00 | |
| PCB126 | ND | 0.0020 | 0.00055 | 1.00 | |
| PCB128 | ND | 0.0020 | 0.00070 | 1.00 | |
| PCB132/153 | ND | 0.0040 | 0.0012 | 1.00 | |
| PCB138/158 | ND | 0.0040 | 0.0011 | 1.00 | |
| PCB149 | ND | 0.0020 | 0.00050 | 1.00 | |
| PCB151 | ND | 0.0020 | 0.00061 | 1.00 | |
| PCB156 | ND | 0.0020 | 0.00051 | 1.00 | |
| PCB157 | ND | 0.0020 | 0.00075 | 1.00 | |
| PCB167 | ND | 0.0020 | 0.00087 | 1.00 | |
| PCB168 | ND | 0.0020 | 0.00033 | 1.00 | |
| PCB169 | ND | 0.0020 | 0.00056 | 1.00 | |
| PCB170 | ND | 0.0020 | 0.00056 | 1.00 | |
| PCB177 | ND | 0.0020 | 0.00057 | 1.00 | |
| PCB180 | ND | 0.0020 | 0.00072 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 10/01/14
Work Order: 14-10-0029
Preparation: EPA 3510C
Method: EPA 8270C SIM PCB Congeners
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|-----------------|-----------------------|-------------------|-----------|-------------------|
| PCB183 | ND | 0.0020 | 0.00053 | 1.00 | |
| PCB187 | ND | 0.0020 | 0.00056 | 1.00 | |
| PCB189 | ND | 0.0020 | 0.00040 | 1.00 | |
| PCB194 | ND | 0.0020 | 0.00042 | 1.00 | |
| PCB195 | ND | 0.0020 | 0.00035 | 1.00 | |
| PCB201 | ND | 0.0020 | 0.00072 | 1.00 | |
| PCB206 | ND | 0.0020 | 0.00026 | 1.00 | |
| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> | | |
| 2-Fluorobiphenyl | 86 | 50-150 | | | |
| p-Terphenyl-d14 | 102 | 50-150 | | | |



Calscience

Quality Control - Spike/Spike Duplicate

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 10/01/14
Work Order: 14-10-0029
Preparation: EPA 1631E Total
Method: EPA 1631E

Project: GWMA - TMDL Compliance Monitoring

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| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | MS/MSD Batch Number |
|---------------------------|------------------------|-----------|------------|---------------|----------------|---------------------|
| CB-RW-11-G-S-20140930 | Sample | Sea Water | Hg/AF 1 | 10/04/14 | 10/04/14 00:00 | 141004S01 |
| CB-RW-11-G-S-20140930 | Matrix Spike | Sea Water | Hg/AF 1 | 10/04/14 | 10/04/14 00:00 | 141004S01 |
| CB-RW-11-G-S-20140930 | Matrix Spike Duplicate | Sea Water | Hg/AF 1 | 10/04/14 | 10/04/14 00:00 | 141004S01 |

| Parameter | Sample Conc. | Spike Added | MS Conc. | MS %Rec. | MSD Conc. | MSD %Rec. | %Rec. CL | RPD | RPD CL | Qualifiers |
|-----------|--------------|-------------|----------|----------|-----------|-----------|----------|-----|--------|------------|
| Mercury | 0.0008987 | 0.02000 | 0.02058 | 98 | 0.02064 | 99 | 71-125 | 0 | 0-24 | |

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RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - Spike/Spike Duplicate

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 10/01/14
Work Order: 14-10-0029
Preparation: Filtered
Method: EPA 1631E

Project: GWMA - TMDL Compliance Monitoring

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| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | MS/MSD Batch Number |
|---------------------------|------------------------|-----------|------------|---------------|----------------|---------------------|
| IA-RW-03-G-S-20140930 | Sample | Sea Water | Hg/AF 1 | 10/04/14 | 10/04/14 00:00 | 141004S02 |
| IA-RW-03-G-S-20140930 | Matrix Spike | Sea Water | Hg/AF 1 | 10/04/14 | 10/04/14 00:00 | 141004S02 |
| IA-RW-03-G-S-20140930 | Matrix Spike Duplicate | Sea Water | Hg/AF 1 | 10/04/14 | 10/04/14 00:00 | 141004S02 |

| Parameter | Sample Conc. | Spike Added | MS Conc. | MS %Rec. | MSD Conc. | MSD %Rec. | %Rec. CL | RPD | RPD CL | Qualifiers |
|-----------|--------------|-------------|----------|----------|-----------|-----------|----------|-----|--------|------------|
| Mercury | ND | 0.02000 | 0.02094 | 105 | 0.02041 | 102 | 71-125 | 3 | 0-24 | |

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RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - Spike/Spike Duplicate

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 10/01/14
Work Order: 14-10-0029
Preparation: EPA 1631E Total
Method: EPA 1631E

Project: GWMA - TMDL Compliance Monitoring

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| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | MS/MSD Batch Number |
|---------------------------|------------------------|-----------|------------|---------------|----------------|---------------------|
| CM-RW-10-G-S-20140930 | Sample | Sea Water | Hg/AF 1 | 10/04/14 | 10/04/14 00:00 | 141004S01A |
| CM-RW-10-G-S-20140930 | Matrix Spike | Sea Water | Hg/AF 1 | 10/04/14 | 10/04/14 00:00 | 141004S01A |
| CM-RW-10-G-S-20140930 | Matrix Spike Duplicate | Sea Water | Hg/AF 1 | 10/04/14 | 10/04/14 00:00 | 141004S01A |

| Parameter | Sample Conc. | Spike Added | MS Conc. | MS %Rec. | MSD Conc. | MSD %Rec. | %Rec. CL | RPD | RPD CL | Qualifiers |
|-----------|--------------|-------------|----------|----------|-----------|-----------|----------|-----|--------|------------|
| Mercury | 0.0006066 | 0.02000 | 0.02070 | 100 | 0.02102 | 102 | 71-125 | 2 | 0-24 | |

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RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - Spike/Spike Duplicate

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 10/01/14
Work Order: 14-10-0029
Preparation: EPA 3005A Total
Method: EPA 1640

Project: GWMA - TMDL Compliance Monitoring

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| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | MS/MSD Batch Number | | | | |
|---------------------------|------------------------|-------------|------------|---------------|----------------|---------------------|----------|-----|--------|------------|
| 14-10-0363-2 | Sample | Sea Water | ICP/MS 05 | 10/09/14 | 10/12/14 18:46 | 141009S02 | | | | |
| 14-10-0363-2 | Matrix Spike | Sea Water | ICP/MS 05 | 10/09/14 | 10/12/14 18:54 | 141009S02 | | | | |
| 14-10-0363-2 | Matrix Spike Duplicate | Sea Water | ICP/MS 05 | 10/09/14 | 10/12/14 19:02 | 141009S02 | | | | |
| Parameter | Sample Conc. | Spike Added | MS Conc. | MS %Rec. | MSD Conc. | MSD %Rec. | %Rec. CL | RPD | RPD CL | Qualifiers |
| Cadmium | 3.081 | 0.5000 | 4.012 | 4X | 3.679 | 4X | 50-150 | 4X | 0-20 | Q |
| Chromium | 182.6 | 5.000 | 172.6 | 4X | 177.0 | 4X | 50-150 | 4X | 0-20 | Q |
| Copper | 458.2 | 0.5000 | 415.2 | 4X | 414.9 | 4X | 50-150 | 4X | 0-20 | Q |
| Lead | 406.5 | 0.5000 | 417.1 | 4X | 397.5 | 4X | 50-150 | 4X | 0-20 | Q |
| Zinc | 728.0 | 5.000 | 663.6 | 4X | 677.3 | 4X | 50-150 | 4X | 0-20 | Q |


 Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - Spike/Spike Duplicate

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 10/01/14
Work Order: 14-10-0029
Preparation: T22.11.5.All DI
Method: EPA 1640

Project: GWMA - TMDL Compliance Monitoring

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| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | MS/MSD Batch Number |
|---------------------------|------------------------|----------|------------|---------------|----------------|---------------------|
| 14-10-0007-9 | Sample | Sediment | ICP/MS 05 | 10/02/14 | 10/12/14 18:14 | 141009S03 |
| 14-10-0007-9 | Matrix Spike | Sediment | ICP/MS 05 | 10/02/14 | 10/12/14 18:22 | 141009S03 |
| 14-10-0007-9 | Matrix Spike Duplicate | Sediment | ICP/MS 05 | 10/02/14 | 10/12/14 18:30 | 141009S03 |

| Parameter | Sample Conc. | Spike Added | MS Conc. | MS %Rec. | MSD Conc. | MSD %Rec. | %Rec. CL | RPD | RPD CL | Qualifiers |
|-----------|--------------|-------------|----------|----------|-----------|-----------|----------|-----|--------|------------|
| Cadmium | ND | 0.5000 | 0.6058 | 121 | 0.6131 | 123 | 50-150 | 1 | 0-20 | |
| Chromium | ND | 5.000 | 5.877 | 118 | 5.754 | 115 | 50-150 | 2 | 0-20 | |
| Copper | 1.731 | 0.5000 | 2.661 | 186 | 2.753 | 204 | 50-150 | 3 | 0-20 | 3 |
| Lead | 0.8170 | 0.5000 | 1.193 | 75 | 1.163 | 69 | 50-150 | 3 | 0-20 | |
| Zinc | 5.010 | 5.000 | 10.72 | 114 | 10.68 | 113 | 50-150 | 0 | 0-20 | |


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RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - Sample Duplicate

| | | |
|--|----------------|-------------|
| ANCHOR QEA, LLC | Date Received: | 10/01/14 |
| 27201 Puerta Real, Suite 350 | Work Order: | 14-10-0029 |
| Mission Viejo, CA 92691-8306 | Preparation: | N/A |
| | Method: | SM 2540 D |
| Project: GWMA - TMDL Compliance Monitoring | | Page 1 of 2 |

| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | Duplicate Batch Number |
|---------------------------|------------------|-----------|------------|----------------|----------------|------------------------|
| CB-RW-11-G-B-20140930 | Sample | Sea Water | N/A | 10/07/14 00:00 | 10/07/14 16:00 | E1007TSSD2 |
| CB-RW-11-G-B-20140930 | Sample Duplicate | Sea Water | N/A | 10/07/14 00:00 | 10/07/14 16:00 | E1007TSSD2 |

| Parameter | Sample Conc. | DUP Conc. | RPD | RPD CL | Qualifiers |
|-------------------------|--------------|-----------|-----|--------|------------|
| Solids, Total Suspended | 7.000 | 6.800 | 3 | 0-20 | |

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RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - Sample Duplicate

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 10/01/14
 Work Order: 14-10-0029
 Preparation: N/A
 Method: SM 2540 D

Project: GWMA - TMDL Compliance Monitoring

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| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | Duplicate Batch Number |
|---------------------------|------------------|-----------|------------|----------------|----------------|------------------------|
| IA-RW-06-G-B-20140930 | Sample | Sea Water | N/A | 10/07/14 00:00 | 10/07/14 17:30 | E1007TSSD3 |
| IA-RW-06-G-B-20140930 | Sample Duplicate | Sea Water | N/A | 10/07/14 00:00 | 10/07/14 17:30 | E1007TSSD3 |

| Parameter | Sample Conc. | DUP Conc. | RPD | RPD CL | Qualifiers |
|-------------------------|--------------|-----------|-----|--------|------------|
| Solids, Total Suspended | 5.000 | 5.200 | 4 | 0-20 | |

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RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - LCS/LCSD

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 10/01/14
Work Order: 14-10-0029
Preparation: N/A
Method: SM 2540 D

Project: GWMA - TMDL Compliance Monitoring

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| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | LCS/LCSD Batch Number | | | |
|---------------------------|-------------|-----------|------------|---------------|----------------|-----------------------|-----|--------|------------|
| 099-09-010-6823 | LCS | Aqueous | N/A | 10/07/14 | 10/07/14 16:00 | E1007TSSL2 | | | |
| 099-09-010-6823 | LCSD | Aqueous | N/A | 10/07/14 | 10/07/14 16:00 | E1007TSSL2 | | | |
| Parameter | Spike Added | LCS Conc. | LCS %Rec. | LCSD Conc. | LCSD %Rec. | %Rec. CL | RPD | RPD CL | Qualifiers |
| Solids, Total Suspended | 100.0 | 87.00 | 87 | 91.00 | 91 | 80-120 | 4 | 0-20 | |

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RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - LCS/LCSD

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 10/01/14
Work Order: 14-10-0029
Preparation: N/A
Method: SM 2540 D

Project: GWMA - TMDL Compliance Monitoring

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| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | LCS/LCSD Batch Number | | | |
|---------------------------|-------------|-----------|------------|---------------|----------------|-----------------------|-----|--------|------------|
| 099-09-010-6824 | LCS | Aqueous | N/A | 10/07/14 | 10/07/14 17:30 | E1007TSSL3 | | | |
| 099-09-010-6824 | LCSD | Aqueous | N/A | 10/07/14 | 10/07/14 17:30 | E1007TSSL3 | | | |
| Parameter | Spike Added | LCS Conc. | LCS %Rec. | LCSD Conc. | LCSD %Rec. | %Rec. CL | RPD | RPD CL | Qualifiers |
| Solids, Total Suspended | 100.0 | 93.00 | 93 | 89.00 | 89 | 80-120 | 4 | 0-20 | |

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RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - LCS/LCSD

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 10/01/14
 Work Order: 14-10-0029
 Preparation: EPA 1631E Total
 Method: EPA 1631E

Project: GWMA - TMDL Compliance Monitoring

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| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | LCS/LCSD Batch Number |
|---------------------------|------|---------|------------|---------------|----------------|-----------------------|
| 099-15-224-59 | LCS | Aqueous | Hg/AF 1 | 10/04/14 | 10/04/14 00:00 | 141004L01 |
| 099-15-224-59 | LCSD | Aqueous | Hg/AF 1 | 10/04/14 | 10/04/14 00:00 | 141004L01 |

| Parameter | Spike Added | LCS Conc. | LCS %Rec. | LCSD Conc. | LCSD %Rec. | %Rec. CL | RPD | RPD CL | Qualifiers |
|-----------|-------------|-----------|-----------|------------|------------|----------|-----|--------|------------|
| Mercury | 0.02000 | 0.01965 | 98 | 0.02001 | 100 | 71-125 | 2 | 0-20 | |

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RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - LCS/LCSD

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 10/01/14
 Work Order: 14-10-0029
 Preparation: Filtered
 Method: EPA 1631E

Project: GWMA - TMDL Compliance Monitoring

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| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | LCS/LCSD Batch Number |
|---------------------------|------|---------|------------|---------------|----------------|-----------------------|
| 099-15-226-44 | LCS | Aqueous | Hg/AF 1 | 10/04/14 | 10/04/14 00:00 | 141004L01F |
| 099-15-226-44 | LCSD | Aqueous | Hg/AF 1 | 10/04/14 | 10/04/14 00:00 | 141004L01F |

| Parameter | Spike Added | LCS Conc. | LCS %Rec. | LCSD Conc. | LCSD %Rec. | %Rec. CL | RPD | RPD CL | Qualifiers |
|-----------|-------------|-----------|-----------|------------|------------|----------|-----|--------|------------|
| Mercury | 0.02000 | 0.01965 | 98 | 0.02001 | 100 | 71-125 | 2 | 0-20 | |

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RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - LCS/LCSD

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 10/01/14
Work Order: 14-10-0029
Preparation: Filtered
Method: EPA 1631E

Project: GWMA - TMDL Compliance Monitoring

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| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | LCS/LCSD Batch Number | | | |
|---------------------------|-------------|-----------|------------|---------------|----------------|-----------------------|-----|--------|------------|
| 099-15-226-45 | LCS | Aqueous | Hg/AF 1 | 10/04/14 | 10/04/14 00:00 | 141004L02F | | | |
| 099-15-226-45 | LCSD | Aqueous | Hg/AF 1 | 10/04/14 | 10/04/14 00:00 | 141004L02F | | | |
| Parameter | Spike Added | LCS Conc. | LCS %Rec. | LCSD Conc. | LCSD %Rec. | %Rec. CL | RPD | RPD CL | Qualifiers |
| Mercury | 0.02000 | 0.01952 | 98 | 0.01947 | 97 | 71-125 | 0 | 0-20 | |

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RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - LCS/LCSD

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 10/01/14
Work Order: 14-10-0029
Preparation: EPA 3005A Total
Method: EPA 1640

Project: GWMA - TMDL Compliance Monitoring

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| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | LCS/LCSD Batch Number |
|---------------------------|------|---------|------------|---------------|----------------|-----------------------|
| 099-13-067-448 | LCS | Aqueous | ICP/MS 05 | 10/09/14 | 10/11/14 16:41 | 141009L02 |
| 099-13-067-448 | LCSD | Aqueous | ICP/MS 05 | 10/09/14 | 10/11/14 16:49 | 141009L02 |

| Parameter | Spike Added | LCS Conc. | LCS %Rec. | LCSD Conc. | LCSD %Rec. | %Rec. CL | RPD | RPD CL | Qualifiers |
|-----------|-------------|-----------|-----------|------------|------------|----------|-----|--------|------------|
| Cadmium | 0.5000 | 0.5184 | 104 | 0.5137 | 103 | 70-130 | 1 | 0-20 | |
| Chromium | 5.000 | 5.212 | 104 | 5.147 | 103 | 70-130 | 1 | 0-20 | |
| Copper | 0.5000 | 0.5206 | 104 | 0.5298 | 106 | 70-130 | 2 | 0-20 | |
| Lead | 0.5000 | 0.5131 | 103 | 0.5172 | 103 | 70-130 | 1 | 0-20 | |
| Zinc | 5.000 | 5.391 | 108 | 5.520 | 110 | 70-130 | 2 | 0-20 | |

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RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - LCS/LCSD

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 10/01/14
Work Order: 14-10-0029
Preparation: EPA 3005A Total
Method: EPA 1640

Project: GWMA - TMDL Compliance Monitoring

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| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | LCS/LCSD Batch Number |
|---------------------------|------|---------|------------|---------------|----------------|-----------------------|
| 099-13-067-449 | LCS | Aqueous | ICP/MS 05 | 10/09/14 | 10/11/14 16:57 | 141009L03 |
| 099-13-067-449 | LCSD | Aqueous | ICP/MS 05 | 10/09/14 | 10/11/14 17:05 | 141009L03 |

| Parameter | Spike Added | LCS Conc. | LCS %Rec. | LCSD Conc. | LCSD %Rec. | %Rec. CL | RPD | RPD CL | Qualifiers |
|-----------|-------------|-----------|-----------|------------|------------|----------|-----|--------|------------|
| Cadmium | 0.5000 | 0.5184 | 104 | 0.5179 | 104 | 70-130 | 0 | 0-20 | |
| Chromium | 5.000 | 5.286 | 106 | 5.353 | 107 | 70-130 | 1 | 0-20 | |
| Copper | 0.5000 | 0.5302 | 106 | 0.5312 | 106 | 70-130 | 0 | 0-20 | |
| Lead | 0.5000 | 0.5420 | 108 | 0.5565 | 111 | 70-130 | 3 | 0-20 | |
| Zinc | 5.000 | 5.513 | 110 | 5.527 | 111 | 70-130 | 0 | 0-20 | |

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RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - LCS/LCSD

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 10/01/14
Work Order: 14-10-0029
Preparation: EPA 3005A Filt.
Method: EPA 1640

Project: GWMA - TMDL Compliance Monitoring

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| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | LCS/LCSD Batch Number | | | |
|---------------------------|-------------|-----------|------------|---------------|----------------|-----------------------|-----|--------|------------|
| 099-15-823-110 | LCS | Aqueous | ICP/MS 05 | 10/09/14 | 10/11/14 16:41 | 141009L02F | | | |
| 099-15-823-110 | LCSD | Aqueous | ICP/MS 05 | 10/09/14 | 10/11/14 16:49 | 141009L02F | | | |
| Parameter | Spike Added | LCS Conc. | LCS %Rec. | LCSD Conc. | LCSD %Rec. | %Rec. CL | RPD | RPD CL | Qualifiers |
| Cadmium | 0.5000 | 0.5184 | 104 | 0.5137 | 103 | 70-130 | 1 | 0-20 | |
| Chromium | 5.000 | 5.212 | 104 | 5.147 | 103 | 70-130 | 1 | 0-20 | |
| Copper | 0.5000 | 0.5206 | 104 | 0.5298 | 106 | 70-130 | 2 | 0-20 | |
| Lead | 0.5000 | 0.5131 | 103 | 0.5172 | 103 | 70-130 | 1 | 0-20 | |
| Zinc | 5.000 | 5.391 | 108 | 5.520 | 110 | 70-130 | 2 | 0-20 | |


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RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - LCS/LCSD

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 10/01/14
Work Order: 14-10-0029
Preparation: EPA 3005A Filt.
Method: EPA 1640

Project: GWMA - TMDL Compliance Monitoring

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| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | LCS/LCSD Batch Number | | | |
|---------------------------|-------------|----------------|------------------|-----------------|-----------------------|-----------------------|-----|--------|------------|
| 099-15-823-109 | LCS | Aqueous | ICP/MS 05 | 10/09/14 | 10/11/14 16:57 | 141009L03F | | | |
| 099-15-823-109 | LCSD | Aqueous | ICP/MS 05 | 10/09/14 | 10/11/14 17:05 | 141009L03F | | | |
| Parameter | Spike Added | LCS Conc. | LCS %Rec. | LCSD Conc. | LCSD %Rec. | %Rec. CL | RPD | RPD CL | Qualifiers |
| Cadmium | 0.5000 | 0.5184 | 104 | 0.5179 | 104 | 70-130 | 0 | 0-20 | |
| Chromium | 5.000 | 5.286 | 106 | 5.353 | 107 | 70-130 | 1 | 0-20 | |
| Copper | 0.5000 | 0.5302 | 106 | 0.5312 | 106 | 70-130 | 0 | 0-20 | |
| Lead | 0.5000 | 0.5420 | 108 | 0.5565 | 111 | 70-130 | 3 | 0-20 | |
| Zinc | 5.000 | 5.513 | 110 | 5.527 | 111 | 70-130 | 0 | 0-20 | |


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RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - LCS/LCSD

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 10/01/14
Work Order: 14-10-0029
Preparation: EPA 3510C
Method: EPA 8081A

Project: GWMA - TMDL Compliance Monitoring

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| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | LCS/LCSD Batch Number | | | |
|---------------------------|-------------|-----------|------------|---------------|----------------|-----------------------|-----|--------|------------|
| 099-16-036-10 | LCS | Aqueous | GC 44 | 10/04/14 | 10/07/14 19:34 | 141004L01 | | | |
| 099-16-036-10 | LCSD | Aqueous | GC 44 | 10/04/14 | 10/07/14 19:48 | 141004L01 | | | |
| Parameter | Spike Added | LCS Conc. | LCS %Rec. | LCSD Conc. | LCSD %Rec. | %Rec. CL | RPD | RPD CL | Qualifiers |
| 4,4'-DDD | 0.05000 | 0.03952 | 79 | 0.04683 | 94 | 50-150 | 17 | 0-25 | |
| 4,4'-DDE | 0.05000 | 0.03926 | 79 | 0.04764 | 95 | 50-150 | 19 | 0-25 | |
| 4,4'-DDT | 0.05000 | 0.04533 | 91 | 0.05329 | 107 | 50-150 | 16 | 0-25 | |
| Alpha Chlordane | 0.05000 | 0.04041 | 81 | 0.04788 | 96 | 50-150 | 17 | 0-25 | |
| Dieldrin | 0.05000 | 0.04188 | 84 | 0.04947 | 99 | 50-150 | 17 | 0-25 | |
| Gamma Chlordane | 0.05000 | 0.04164 | 83 | 0.04919 | 98 | 50-150 | 17 | 0-25 | |

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RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - LCS/LCSD

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 10/01/14
Work Order: 14-10-0029
Preparation: EPA 3510C
Method: EPA 8270C SIM PCB Congeners

Project: GWMA - TMDL Compliance Monitoring

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| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | LCS/LCSD Batch Number | | | | |
|---------------------------|-------------|-----------|------------|---------------|----------------|-----------------------|--------|-----|--------|------------|
| 099-16-414-9 | LCS | Aqueous | GC/MS HHH | 10/04/14 | 10/09/14 19:13 | 141004L02 | | | | |
| 099-16-414-9 | LCSD | Aqueous | GC/MS HHH | 10/04/14 | 10/09/14 19:40 | 141004L02 | | | | |
| Parameter | Spike Added | LCS Conc. | LCS %Rec. | LCSD Conc. | LCSD %Rec. | %Rec. CL | ME CL | RPD | RPD CL | Qualifiers |
| PCB018 | 0.5000 | 0.3581 | 72 | 0.3623 | 72 | 50-150 | 33-167 | 1 | 0-25 | |
| PCB028 | 0.5000 | 0.3871 | 77 | 0.3854 | 77 | 50-150 | 33-167 | 0 | 0-25 | |
| PCB044 | 0.5000 | 0.3701 | 74 | 0.3688 | 74 | 50-150 | 33-167 | 0 | 0-25 | |
| PCB052 | 0.5000 | 0.3306 | 66 | 0.3259 | 65 | 50-150 | 33-167 | 1 | 0-25 | |
| PCB066 | 0.5000 | 0.4104 | 82 | 0.4016 | 80 | 50-150 | 33-167 | 2 | 0-25 | |
| PCB077 | 0.5000 | 0.4057 | 81 | 0.3963 | 79 | 50-150 | 33-167 | 2 | 0-25 | |
| PCB101 | 0.5000 | 0.3559 | 71 | 0.3476 | 70 | 50-150 | 33-167 | 2 | 0-25 | |
| PCB105 | 0.5000 | 0.3924 | 78 | 0.3931 | 79 | 50-150 | 33-167 | 0 | 0-25 | |
| PCB118 | 0.5000 | 0.4014 | 80 | 0.3922 | 78 | 50-150 | 33-167 | 2 | 0-25 | |
| PCB126 | 0.5000 | 0.3905 | 78 | 0.3845 | 77 | 50-150 | 33-167 | 2 | 0-25 | |
| PCB128 | 0.5000 | 0.3459 | 69 | 0.3384 | 68 | 50-150 | 33-167 | 2 | 0-25 | |
| PCB170 | 0.5000 | 0.3127 | 63 | 0.3101 | 62 | 50-150 | 33-167 | 1 | 0-25 | |
| PCB180 | 0.5000 | 0.3519 | 70 | 0.3462 | 69 | 50-150 | 33-167 | 2 | 0-25 | |
| PCB187 | 0.5000 | 0.3442 | 69 | 0.3396 | 68 | 50-150 | 33-167 | 1 | 0-25 | |
| PCB195 | 0.5000 | 0.3781 | 76 | 0.3733 | 75 | 50-150 | 33-167 | 1 | 0-25 | |
| PCB206 | 0.5000 | 0.3406 | 68 | 0.3338 | 67 | 50-150 | 33-167 | 2 | 0-25 | |

Total number of LCS compounds: 16

Total number of ME compounds: 0

Total number of ME compounds allowed: 1

LCS ME CL validation result: Pass

RPD: Relative Percent Difference. CL: Control Limits

Glossary of Terms and Qualifiers

Work Order: 14-10-0029

Page 1 of 1

| <u>Qualifiers</u> | <u>Definition</u> |
|-------------------|--|
| * | See applicable analysis comment. |
| < | Less than the indicated value. |
| > | Greater than the indicated value. |
| 1 | Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification. |
| 2 | Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification. |
| 3 | Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control. |
| 4 | The MS/MSD RPD was out of control due to suspected matrix interference. |
| 5 | The PDS/PDS or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference. |
| 6 | Surrogate recovery below the acceptance limit. |
| 7 | Surrogate recovery above the acceptance limit. |
| B | Analyte was present in the associated method blank. |
| BU | Sample analyzed after holding time expired. |
| BV | Sample received after holding time expired. |
| E | Concentration exceeds the calibration range. |
| ET | Sample was extracted past end of recommended max. holding time. |
| HD | The chromatographic pattern was inconsistent with the profile of the reference fuel standard. |
| HDH | The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected). |
| HDL | The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected). |
| J | Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated. |
| JA | Analyte positively identified but quantitation is an estimate. |
| ME | LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean). |
| ND | Parameter not detected at the indicated reporting limit. |
| Q | Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater. |
| SG | The sample extract was subjected to Silica Gel treatment prior to analysis. |
| X | % Recovery and/or RPD out-of-range. |
| Z | Analyte presence was not confirmed by second column or GC/MS analysis. |

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of ≤ 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

Chain of Custody Record & Laboratory Analysis Request

| | | |
|--------------------|---------------------------------|-----------------|
| Laboratory Number: | | Test Parameters |
| Date: | 9.30.14 | |
| Project Name: | GWMA-TMDL Compliance Monitoring | |
| Project Number: | 141205-01.01 | |
| Project Manager: | Andy Martin | |
| Phone Number: | (949) 334 9630 | |
| Shipment Method: | Courier | |



| Line | Field Sample ID | Collection Date/Time | Matrix | No. of Containers | TSS | Total and dissolved metals | Organochlorine pesticides | PCB congeners | Comments/Preservation |
|------|-----------------------|----------------------|--------|-------------------|-----|----------------------------|---------------------------|---------------|-----------------------|
| 1 | CB-RW-11-G-S-20140930 | 9.30.14 0900 | Water | 6 | X | X | X | X | |
| 2 | CB-RW-11-G-M-20140930 | 0905 | | 2 | X | X | X | X | lab dup |
| 3 | CB-RW-11-G-B-20140930 | 0910 | | 1 | X | X | X | X | |
| 4 | OA-RW-09-G-S-20140930 | 0932 | | 6 | X | X | X | X | |
| 5 | OA-RW-09-G-M-20140930 | 0936 | | 1 | X | X | X | X | |
| 6 | OA-RW-09-G-B-20140930 | 0939 | | 1 | X | X | X | X | |
| 7 | OA-RW-08-G-S-20140930 | 1010 | | 6 | X | X | X | X | |
| 8 | OA-RW-08-G-S-20140930 | 1010 | | 6 | X | X | X | X | field dup |
| 9 | OA-RW-08-G-M-20140930 | 1015 | | 1 | X | X | X | X | |
| 10 | OA-RW-08-G-B-20140930 | 1020 | | 1 | X | X | X | X | |
| 11 | CS-RW-01-G-S-20140930 | 1205 | | 6 | X | X | X | X | |
| 12 | CS-RW-01-G-M-20140930 | 1207 | | 1 | X | X | X | X | |
| 13 | CS-RW-01-G-B-20140930 | 1210 | | 1 | X | X | X | X | |
| 14 | EB-20140930 | 1122 | | 5 | X | X | X | X | |
| 15 | FB-20140930 | 1240 | | 2 | X | X | X | X | |

Notes:

| | |
|---------------------------|---------------------|
| Relinquished By: | Company: Anchor QEA |
| <i>Bradley B. Geisler</i> | 10.1.14 1120 |
| Signature/Printed Name | Date/Time |

| | |
|------------------------|--------------|
| Relinquished By: | Company: ECI |
| <i>[Signature]</i> | 10/1/14 1240 |
| Signature/Printed Name | Date/Time |

| | |
|------------------------|--------------|
| Received By: | Company: ECI |
| <i>[Signature]</i> | 10/1/14 1120 |
| Signature/Printed Name | Date/Time |

| | |
|------------------------|--------------|
| Received By: | Company: ECI |
| <i>[Signature]</i> | 10/1/14 1235 |
| Signature/Printed Name | Date/Time |

Chain of Custody Record & Laboratory Analysis Request

Laboratory Number: _____

Date: 9.30.14


Project Name: GWMA-TMDL Compliance Monitoring

Project Number: 141205-01.01

Project Manager: Andy Martin

Phone Number: (949) 334 9630

Shipment Method: Courier

ANCHOR
QEA 
6024

| Line | Field Sample ID | Collection Date/Time | Matrix | No. of Containers | Test Parameters | | | | | | | | | | | | Comments/Preservation |
|------|----------------------------|----------------------|--------|-------------------|-----------------|----------------------------|---------------------------|---------------|--|--|--|--|--|--|--|--|-----------------------|
| | | | | | TSS | Total and dissolved metals | Organochlorine pesticides | PCB congeners | | | | | | | | | |
| 16 | 1 IA-RW-02-G-S-20140930 | 9.30.14 1300 | Water | 6 | X | X | X | X | | | | | | | | | |
| 17 | 2 IA-RW-02-G-M-20140930 | 1300 | | 1 | X | X | X | X | | | | | | | | | |
| 18 | 3 IA-RW-02-G-B-20140930 | 1310 | | 1 | X | X | X | X | | | | | | | | | |
| 19 | 4 IA-RW-04-G-S-20140930 | 1343 | | 6 | X | X | X | X | | | | | | | | | |
| 20 | 5 IA-RW-04-G-M-20140930 | 1346 | | 1 | X | X | X | X | | | | | | | | | |
| 21 | 6 IA-RW-04-G-B-20140930 | 1349 | | 1 | X | X | X | X | | | | | | | | | |
| 22 | 7 IA-RW-03-G-S-20140930 | 1413 | | 12 | X | X | X | X | | | | | | | | | (139) lab dup |
| 23 | 8 IA-RW-03-G-M-20140930 | 1420 | | 1 | X | X | X | X | | | | | | | | | |
| 24 | 9 IA-RW-03-G-B-20140930 | 1425 | | 1 | X | X | X | X | | | | | | | | | |
| 25 | 10 IA-RW-06-G-S-20140930 | 1550 | | 6 | X | X | X | X | | | | | | | | | |
| 26 | 11 IA-RW-06-G-M-20140930 | 1555 | | 1 | X | X | X | X | | | | | | | | | |
| 27 | 12 IA-RW-1006-G-M-20140930 | 1555 | | 1 | X | X | X | X | | | | | | | | | field dup |
| 28 | 13 IA-RW-06-G-B-20140930 | 1600 | | 1 | X | X | X | X | | | | | | | | | |
| 29 | 14 FH-RW-07-G-S-20140930 | 1630 | | 6 | X | X | X | X | | | | | | | | | |
| 30 | 15 FH-RW-07-G-M-20140930 | 1633 | | 1 | X | X | X | X | | | | | | | | | |

Notes:

Relinquished By: B. Geisler Company: Anchor QEA
Signature/Printed Name Date/Time 10-14 11:20

Received By: _____ Company: ECE
Signature/Printed Name Date/Time 10/1/14 1120

Relinquished By: _____ Company: ECE
Signature/Printed Name Date/Time 10/1/14 1240

Received By: J. Pats Company: ECE
Signature/Printed Name Date/Time 10/1/14 1035

Chain of Custody Record & Laboratory Analysis Request

Laboratory Number:

Date: 9.30.14

Project Name: GWMA-TMDL Compliance Monitoring

Project Number: 141205-01.01

Project Manager: Andy Martin

Phone Number: (949) 334 9630

Shipment Method: Courier

Test Parameters



0029

| Line | Field Sample ID | Collection Date/Time | Matrix | No. of Containers | Test Parameters | | | | | | | | | | | | | | Comments/Preservation | | | | | | | | |
|------|-----------------------|----------------------|--------|-------------------|-----------------|----------------------------|---------------------------|---------------|--|--|--|--|--|--|--|--|--|--|-----------------------|--|--|--|--|--|--|--|--|
| | | | | | TSS | Total and dissolved metals | Organochlorine pesticides | PCB congeners | | | | | | | | | | | | | | | | | | | |
| 31 | FH-RW-07-G-B-20140930 | 9.30.14 1636 | Water | 1 | X | | | | | | | | | | | | | | | | | | | | | | |
| 32 | IA-RW-05-G-S-20140930 | 1705 | | 6 | X | X | X | X | | | | | | | | | | | | | | | | | | | |
| 33 | IA-RW-05-G-B-20140930 | 1710 | | 1 | X | | | | | | | | | | | | | | | | | | | | | | |
| 34 | IA-RW-05-G-B-20140930 | 1715 | | 1 | X | | | | | | | | | | | | | | | | | | | | | | |
| 35 | CM-RW-10-G-S-20140930 | 1750 | | 6 | X | X | X | X | | | | | | | | | | | | | | | | | | | |
| 36 | CM-RW-10-G-M-20140930 | 1755 | | 1 | X | | | | | | | | | | | | | | | | | | | | | | |
| 37 | CM-RW-10-G-B-20140930 | 1800 | | 1 | X | | | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Notes:

Relinquished By: B. Gil B. Geisler Company: Anchor QEA
 Signature/Printed Name Date/Time 10-1-14 11:20

Received By: [Signature] Company: ECF
 Signature/Printed Name Date/Time 10/1/14 1120

Relinquished By: [Signature] Company: ECF
 Signature/Printed Name Date/Time 10/1/14 1240

Received By: [Signature] Company: ECF
 Signature/Printed Name Date/Time 10/1/14 101235

Calscience

WORK ORDER #: 14-10-002a

SAMPLE RECEIPT FORM

Cooler 1 of 8

CLIENT: ANCHOR

DATE: 10/01/14

TEMPERATURE: Thermometer ID: SC2 (Criteria: 0.0 °C – 6.0 °C, not frozen except sediment/tissue)

Temperature 3.3 °C - 0.2 °C (CF) = 3.1 °C Blank Sample

Sample(s) outside temperature criteria (PM/APM contacted by: _____)

Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: Air Filter

Checked by: 802

CUSTODY SEALS INTACT:

Cooler _____

No (Not Intact)

Not Present

N/A

Checked by: 802

Sample _____

No (Not Intact)

Not Present

Checked by: 802

SAMPLE CONDITION:

| | Yes | No | N/A |
|---|-------------------------------------|--------------------------|-------------------------------------|
| Chain-Of-Custody (COC) document(s) received with samples..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| COC document(s) received complete..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> Collection date/time, matrix, and/or # of containers logged in based on sample labels. | | | |
| <input type="checkbox"/> No analysis requested. <input type="checkbox"/> Not relinquished. <input type="checkbox"/> No date/time relinquished. | | | |
| Sampler's name indicated on COC..... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Sample container label(s) consistent with COC..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Sample container(s) intact and good condition..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Proper containers and sufficient volume for analyses requested..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Analyses received within holding time..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Aqueous samples received within 15-minute holding time | | | |
| <input type="checkbox"/> pH <input type="checkbox"/> Residual Chlorine <input type="checkbox"/> Dissolved Sulfides <input type="checkbox"/> Dissolved Oxygen..... | | | |
| Proper preservation noted on COC or sample container..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> Unpreserved vials received for Volatiles analysis | | | |
| Volatile analysis container(s) free of headspace..... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Tedlar bag(s) free of condensation..... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

CONTAINER TYPE:

Solid: 4ozCGJ 8ozCGJ 16ozCGJ Sleeve (____) EnCores® TerraCores® _____

Aqueous: VOA VOAh VOAna₂ 125AGB 125AGBh 125AGBp 1AGB 1AGBna₂ 1AGBs

500AGB 500AGJ 500AGJs 250AGB 250CGB 250CGBs 1PB 1PBna 500PB

250PB 250PBn 125PB 125PBz_{na} 100PJ 100PJna₂ _____ _____ _____

Air: Tedlar® Canister Other: _____ Trip Blank Lot#: _____ Labeled/Checked by: 802

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope

Reviewed by: 802

Preservative: h: HCL n: HNO₃ na₂:Na₂S₂O₃ na: NaOH p: H₃PO₄ s: H₂SO₄ u: Ultra-pure z_{na}: ZnAc₂+NaOH f: Filtered

Scanned by: 802

Return to Contents

Calscience

WORK ORDER #: 14-10-0029

SAMPLE RECEIPT FORM

Cooler 2 of 8

CLIENT: ANCHOR

DATE: 10/01/14

TEMPERATURE: Thermometer ID: SC2 (Criteria: 0.0 °C – 6.0 °C, not frozen except sediment/tissue)

Temperature 3.3 °C - 0.2 °C (CF) = 3.1 °C Blank Sample

Sample(s) outside temperature criteria (PM/APM contacted by: _____)

Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: Air Filter

Checked by: SR

CUSTODY SEALS INTACT:

Cooler _____ No (Not Intact) Not Present N/A Checked by: SR

Sample _____ No (Not Intact) Not Present Checked by: SR

| SAMPLE CONDITION: | Yes | No | N/A |
|---|-------------------------------------|--------------------------|-------------------------------------|
| Chain-Of-Custody (COC) document(s) received with samples..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| COC document(s) received complete..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> Collection date/time, matrix, and/or # of containers logged in based on sample labels. | | | |
| <input type="checkbox"/> No analysis requested. <input type="checkbox"/> Not relinquished. <input type="checkbox"/> No date/time relinquished. | | | |
| Sampler's name indicated on COC..... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Sample container label(s) consistent with COC..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Sample container(s) intact and good condition..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Proper containers and sufficient volume for analyses requested..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Analyses received within holding time..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Aqueous samples received within 15-minute holding time | | | |
| <input type="checkbox"/> pH <input type="checkbox"/> Residual Chlorine <input type="checkbox"/> Dissolved Sulfides <input type="checkbox"/> Dissolved Oxygen..... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Proper preservation noted on COC or sample container..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> Unpreserved vials received for Volatiles analysis | | | |
| Volatile analysis container(s) free of headspace..... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Tedlar bag(s) free of condensation..... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

CONTAINER TYPE:

Solid: 4ozCGJ 8ozCGJ 16ozCGJ Sleeve (____) EnCores® TerraCores® _____

Aqueous: VOA VOA_h VOA_{na2} 125AGB 125AGB_h 125AGB_p 1AGB 1AGB_{na2} 1AGB_s

500AGB 500AGJ 500AGJ_s 250AGB 250CGB 250CGB_s 1PB 1PB_{na} 500PB

250PB 250PB_n 125PB 125PB_z 100PJ 100PJ_{na2} _____ _____ _____

Air: Tedlar® Canister Other: _____ Trip Blank Lot#: _____ Labeled/Checked by: SR

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope Reviewed by: SR

Preservative: h: HCL n: HNO₃ na₂: Na₂S₂O₃ na: NaOH p: H₃PO₄ s: H₂SO₄ u: Ultra-pure z: ZnAc₂+NaOH f: Filtered Scanned by: SR

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Calscience

WORK ORDER #: 14-10-0029

SAMPLE RECEIPT FORM

Cooler 3 of 8

CLIENT: ANCHOR

DATE: 10/01/14

TEMPERATURE: Thermometer ID: SC2 (Criteria: 0.0 °C – 6.0 °C, not frozen except sediment/tissue)

Temperature 2.7 °C - 0.2 °C (CF) = 2.5 °C Blank Sample

Sample(s) outside temperature criteria (PM/APM contacted by: _____)

Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: Air Filter

Checked by: SR

CUSTODY SEALS INTACT:

Cooler _____ No (Not Intact) Not Present N/A

Sample _____ No (Not Intact) Not Present

Checked by: SR

| SAMPLE CONDITION: | Yes | No | N/A |
|---|-------------------------------------|--------------------------|-------------------------------------|
| Chain-Of-Custody (COC) document(s) received with samples..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| COC document(s) received complete..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> Collection date/time, matrix, and/or # of containers logged in based on sample labels. | | | |
| <input type="checkbox"/> No analysis requested. <input type="checkbox"/> Not relinquished. <input type="checkbox"/> No date/time relinquished. | | | |
| Sampler's name indicated on COC..... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Sample container label(s) consistent with COC..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Sample container(s) intact and good condition..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Proper containers and sufficient volume for analyses requested..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Analyses received within holding time..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Aqueous samples received within 15-minute holding time | | | |
| <input type="checkbox"/> pH <input type="checkbox"/> Residual Chlorine <input type="checkbox"/> Dissolved Sulfides <input type="checkbox"/> Dissolved Oxygen..... | | | |
| Proper preservation noted on COC or sample container..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> Unpreserved vials received for Volatiles analysis | | | |
| Volatile analysis container(s) free of headspace..... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Tedlar bag(s) free of condensation..... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

CONTAINER TYPE:

Solid: 4ozCGJ 8ozCGJ 16ozCGJ Sleeve (____) EnCores® TerraCores® _____

Aqueous: VOA VOA_h VOA_{na2} 125AGB 125AGB_h 125AGB_p 1AGB 1AGB_{na2} 1AGB_s

500AGB 500AGJ 500AGJ_s 250AGB 250CGB 250CGB_s 1PB 1PB_{na} 500PB

250PB 250PB_n 125PB 125PB_z 100PJ 100PJ_{na2} _____ _____ _____

Air: Tedlar® Canister Other: _____ Trip Blank Lot#: _____ Labeled/Checked by: SR

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope Reviewed by: SR

Preservative: h: HCL n: HNO₃ na₂: Na₂S₂O₃ na: NaOH p: H₃PO₄ s: H₂SO₄ u: Ultra-pure z_{na}: ZnAc₂+NaOH f: Filtered Scanned by: SR

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Calscience

WORK ORDER #: 14-10-0029

SAMPLE RECEIPT FORM

Cooler 4 of 8

CLIENT: ANCHOR

DATE: 10/01/14

TEMPERATURE: Thermometer ID: SC2 (Criteria: 0.0 °C – 6.0 °C, not frozen except sediment/tissue)

Temperature 2.6 °C - 0.2 °C (CF) = 2.4 °C Blank Sample

Sample(s) outside temperature criteria (PM/APM contacted by: _____)

Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: Air Filter

Checked by: SR

CUSTODY SEALS INTACT:

Cooler _____ No (Not Intact) Not Present N/A

Sample _____ No (Not Intact) Not Present

Checked by: SR

SAMPLE CONDITION:

| | Yes | No | N/A |
|---|-------------------------------------|--------------------------|-------------------------------------|
| Chain-Of-Custody (COC) document(s) received with samples..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| COC document(s) received complete..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> Collection date/time, matrix, and/or # of containers logged in based on sample labels. | | | |
| <input type="checkbox"/> No analysis requested. <input type="checkbox"/> Not relinquished. <input type="checkbox"/> No date/time relinquished. | | | |
| Sampler's name indicated on COC..... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Sample container label(s) consistent with COC..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Sample container(s) intact and good condition..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Proper containers and sufficient volume for analyses requested..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Analyses received within holding time..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Aqueous samples received within 15-minute holding time | | | |
| <input type="checkbox"/> pH <input type="checkbox"/> Residual Chlorine <input type="checkbox"/> Dissolved Sulfides <input type="checkbox"/> Dissolved Oxygen..... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Proper preservation noted on COC or sample container..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> Unpreserved vials received for Volatiles analysis | | | |
| Volatile analysis container(s) free of headspace..... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Tedlar bag(s) free of condensation..... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

CONTAINER TYPE:

Solid: 4ozCGJ 8ozCGJ 16ozCGJ Sleeve (____) EnCores® TerraCores® _____

Aqueous: VOA VOA_h VOA_{na2} 125AGB 125AGB_h 125AGB_p 1AGB 1AGB_{na2} 1AGB_s

500AGB 500AGJ 500AGJ_s 250AGB 250CGB 250CGB_s 1PB 1PB_{na} 500PB

250PB 250PB_n 125PB 125PB_z 100PJ 100PJ_{na2} _____ _____ _____

Air: Tedlar® Canister Other: _____ Trip Blank Lot#: _____ Labeled/Checked by: SR

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope Reviewed by: SR

Preservative: h: HCL n: HNO₃ na₂: Na₂S₂O₃ na: NaOH p: H₃PO₄ s: H₂SO₄ u: Ultra-pure z_{na}: ZnAc₂+NaOH f: Filtered Scanned by: SR

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Calscience

WORK ORDER #: 14-10-0029

SAMPLE RECEIPT FORM

Cooler 5 of 8

CLIENT: ANCHOR

DATE: 10/01/14

TEMPERATURE: Thermometer ID: SC2 (Criteria: 0.0 °C – 6.0 °C, not frozen except sediment/tissue)

Temperature 2.9 °C - 0.2 °C (CF) = 2.7 °C Blank Sample

Sample(s) outside temperature criteria (PM/APM contacted by: _____)

Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: Air Filter

Checked by: SR

CUSTODY SEALS INTACT:

Cooler _____ No (Not Intact) Not Present N/A

Sample _____ No (Not Intact) Not Present

Checked by: SR

| SAMPLE CONDITION: | Yes | No | N/A |
|---|-------------------------------------|--------------------------|-------------------------------------|
| Chain-Of-Custody (COC) document(s) received with samples..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| COC document(s) received complete..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> Collection date/time, matrix, and/or # of containers logged in based on sample labels. <input type="checkbox"/> No analysis requested. <input type="checkbox"/> Not relinquished. <input type="checkbox"/> No date/time relinquished. | | | |
| Sampler's name indicated on COC..... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Sample container label(s) consistent with COC..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Sample container(s) intact and good condition..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Proper containers and sufficient volume for analyses requested..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Analyses received within holding time..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Aqueous samples received within 15-minute holding time | | | |
| <input type="checkbox"/> pH <input type="checkbox"/> Residual Chlorine <input type="checkbox"/> Dissolved Sulfides <input type="checkbox"/> Dissolved Oxygen..... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Proper preservation noted on COC or sample container..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> Unpreserved vials received for Volatiles analysis | | | |
| Volatile analysis container(s) free of headspace..... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Tedlar bag(s) free of condensation..... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

CONTAINER TYPE:

Solid: 4ozCGJ 8ozCGJ 16ozCGJ Sleeve (____) EnCores® TerraCores® _____

Aqueous: VOA VOA_h VOA_{na2} 125AGB 125AGB_h 125AGB_p 1AGB 1AGB_{na2} 1AGB_s

500AGB 500AGJ 500AGJ_s 250AGB 250CGB 250CGB_s 1PB 1PB_{na} 500PB

250PB 250PB_n 125PB 125PB_z 100PJ 100PJ_{na2} _____ _____ _____

Air: Tedlar® Canister Other: _____ Trip Blank Lot#: _____ Labeled/Checked by: SR

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope Reviewed by: SR

Preservative: h: HCL n: HNO₃ na₂: Na₂S₂O₃ na: NaOH p: H₃PO₄ s: H₂SO₄ u: Ultra-pure z_{na}: ZnAc₂+NaOH f: Filtered Scanned by: SR

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Calscience

WORK ORDER #: 14-10-0029

SAMPLE RECEIPT FORM

Cooler 6 of 8

CLIENT: ANCHOR

DATE: 10/01/14

TEMPERATURE: Thermometer ID: SC2 (Criteria: 0.0 °C - 6.0 °C, not frozen except sediment/tissue)
Temperature 3.4 °C - 0.2 °C (CF) = 3.2 °C [X] Blank [] Sample
[] Sample(s) outside temperature criteria (PM/APM contacted by: _____)
[] Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.
[] Received at ambient temperature, placed on ice for transport by Courier.
Ambient Temperature: [] Air [] Filter Checked by: [Signature]

CUSTODY SEALS INTACT:
[] Cooler [] _____ [] No (Not Intact) [X] Not Present [] N/A Checked by: [Signature]
[] Sample [] _____ [] No (Not Intact) [X] Not Present Checked by: [Signature]

SAMPLE CONDITION:
Chain-Of-Custody (COC) document(s) received with samples..... [X] Yes [] No [] N/A
COC document(s) received complete..... [X] Yes [] No [] N/A
[] Collection date/time, matrix, and/or # of containers logged in based on sample labels.
[] No analysis requested. [] Not relinquished. [] No date/time relinquished.
Sampler's name indicated on COC..... [] Yes [] No [X] N/A
Sample container label(s) consistent with COC..... [X] Yes [] No [] N/A
Sample container(s) intact and good condition..... [X] Yes [] No [] N/A
Proper containers and sufficient volume for analyses requested..... [X] Yes [] No [] N/A
Analyses received within holding time..... [X] Yes [] No [] N/A
Aqueous samples received within 15-minute holding time
[] pH [] Residual Chlorine [] Dissolved Sulfides [] Dissolved Oxygen..... [] Yes [] No [X] N/A
Proper preservation noted on COC or sample container..... [X] Yes [] No [] N/A
[] Unpreserved vials received for Volatiles analysis
Volatile analysis container(s) free of headspace..... [] Yes [] No [X] N/A
Tedlar bag(s) free of condensation..... [] Yes [] No [X] N/A

CONTAINER TYPE:
Solid: [] 4ozCGJ [] 8ozCGJ [] 16ozCGJ [] Sleeve (____) [] EnCores® [] TerraCores® [] _____
Aqueous: [] VOA [] VOA h [] VOAna2 [] 125AGB [] 125AGBh [] 125AGBp [X] 1AGB [] 1AGBna2 [] 1AGBs
[] 500AGB [] 500AGJ [] 500AGJs [] 250AGB [] 250CGB [] 250CGBs [X] 1PB [] 1PBna [] 500PB
[X] 250PB [] 250PBn [] 125PB [] 125PBzanna [] 100PJ [] 100PJna2 [] _____ [] _____ [] _____
Air: [] Tedlar® [] Canister Other: [] _____ Trip Blank Lot#: _____ Labeled/Checked by: [Signature]
Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope Reviewed by: [Signature]
Preservative: h: HCL n: HNO3 na2:Na2S2O3 na: NaOH p: H3PO4 s: H2SO4 u: Ultra-pure zanna: ZnAc2+NaOH f: Filtered Scanned by: [Signature]

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Calscience

WORK ORDER #: 14-10-0029

SAMPLE RECEIPT FORM

Cooler 7 of 8

CLIENT: ANCHOR

DATE: 10/01/14

TEMPERATURE: Thermometer ID: SC2 (Criteria: 0.0 °C – 6.0 °C, not frozen except sediment/tissue)

Temperature 3.2 °C - 0.2 °C (CF) = 3.0 °C Blank Sample

Sample(s) outside temperature criteria (PM/APM contacted by: _____)

Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: Air Filter Checked by: SR

CUSTODY SEALS INTACT:

Cooler _____ No (Not Intact) Not Present N/A Checked by: SR

Sample _____ No (Not Intact) Not Present Checked by: SR

| SAMPLE CONDITION: | Yes | No | N/A |
|---|-------------------------------------|--------------------------|-------------------------------------|
| Chain-Of-Custody (COC) document(s) received with samples..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| COC document(s) received complete..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> Collection date/time, matrix, and/or # of containers logged in based on sample labels. <input type="checkbox"/> No analysis requested. <input type="checkbox"/> Not relinquished. <input type="checkbox"/> No date/time relinquished. | | | |
| Sampler's name indicated on COC..... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Sample container label(s) consistent with COC..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Sample container(s) intact and good condition..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Proper containers and sufficient volume for analyses requested..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Analyses received within holding time..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Aqueous samples received within 15-minute holding time | | | |
| <input type="checkbox"/> pH <input type="checkbox"/> Residual Chlorine <input type="checkbox"/> Dissolved Sulfides <input type="checkbox"/> Dissolved Oxygen..... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Proper preservation noted on COC or sample container..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> Unpreserved vials received for Volatiles analysis | | | |
| Volatile analysis container(s) free of headspace..... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Tedlar bag(s) free of condensation..... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

CONTAINER TYPE:

Solid: 4ozCGJ 8ozCGJ 16ozCGJ Sleeve (____) EnCores® TerraCores® _____

Aqueous: VOA VOA_h VOA_{na2} 125AGB 125AGB_h 125AGB_p 1AGB 1AGB_{na2} 1AGB_s

500AGB 500AGJ 500AGJ_s 250AGB 250CGB 250CGB_s 1PB 1PB_{na} 500PB

250PB 250PB_n 125PB 125PB_z 100PJ 100PJ_{na2} _____ _____ _____

Air: Tedlar® Canister Other: _____ Trip Blank Lot#: _____ Labeled/Checked by: SR

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope Reviewed by: SR

Preservative: h: HCL n: HNO₃ na₂: Na₂S₂O₃ na: NaOH p: H₃PO₄ s: H₂SO₄ u: Ultra-pure z_{na}: ZnAc₂+NaOH f: Filtered Scanned by: SR

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Calscience

WORK ORDER #: 14-10-0029

SAMPLE RECEIPT FORM

Cooler 8 of 8

CLIENT: ANCHOR

DATE: 10/01/14

TEMPERATURE: Thermometer ID: SC2 (Criteria: 0.0 °C – 6.0 °C, not frozen except sediment/tissue)

Temperature 3.0 °C - 0.2 °C (CF) = 2.8 °C Blank Sample

Sample(s) outside temperature criteria (PM/APM contacted by: _____)

Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: Air Filter

Checked by: SR

CUSTODY SEALS INTACT:

Cooler _____ No (Not Intact) Not Present N/A

Sample _____ No (Not Intact) Not Present

Checked by: SR

| SAMPLE CONDITION: | Yes | No | N/A |
|---|-------------------------------------|--------------------------|-------------------------------------|
| Chain-Of-Custody (COC) document(s) received with samples..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| COC document(s) received complete..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> Collection date/time, matrix, and/or # of containers logged in based on sample labels. <input type="checkbox"/> No analysis requested. <input type="checkbox"/> Not relinquished. <input type="checkbox"/> No date/time relinquished. | | | |
| Sampler's name indicated on COC..... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Sample container label(s) consistent with COC..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Sample container(s) intact and good condition..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Proper containers and sufficient volume for analyses requested..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Analyses received within holding time..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Aqueous samples received within 15-minute holding time | | | |
| <input type="checkbox"/> pH <input type="checkbox"/> Residual Chlorine <input type="checkbox"/> Dissolved Sulfides <input type="checkbox"/> Dissolved Oxygen..... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Proper preservation noted on COC or sample container..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> Unpreserved vials received for Volatiles analysis | | | |
| Volatile analysis container(s) free of headspace..... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Tedlar bag(s) free of condensation..... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

CONTAINER TYPE:

Solid: 4ozCGJ 8ozCGJ 16ozCGJ Sleeve (____) EnCores® TerraCores® _____

Aqueous: VOA VOAh VOAna₂ 125AGB 125AGBh 125AGBp 1AGB 1AGBna₂ 1AGBs

500AGB 500AGJ 500AGJs 250AGB 250CGB 250CGBs 1PB 1PBna 500PB

250PB 250PBn 125PB 125PBz₂na 100PJ 100PJna₂ _____ _____ _____

Air: Tedlar® Canister Other: _____ Trip Blank Lot#: _____ Labeled/Checked by: SR

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope Reviewed by: SR

Preservative: h: HCL n: HNO₃ na₂:Na₂S₂O₃ na: NaOH p: H₃PO₄ s: H₂SO₄ u: Ultra-pure z₂na: ZnAc₂+NaOH f: Filtered Scanned by: SR

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Calscience



WORK ORDER NUMBER: 14-11-0050

The difference is service



AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: ANCHOR QEA, LLC

Client Project Name: GWMA - TMDL Compliance Monitoring

Attention: Andy Martin
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Approved for release on 11/24/2014 by:
Danielle Gonsman
Project Manager

ResultLink ▶

Email your PM ▶



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Client Project Name: GWMA - TMDL Compliance Monitoring
Work Order Number: 14-11-0050

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CASE NARRATIVE

Calscience Work Order No.: 14-11-0050
Project ID: GWMA-TMDL Compliance Monitoring

Provided below is a narrative of our analytical effort, including any unique features or anomalies encountered as part of the analysis of the seawater samples.

Sample Condition on Receipt

Seventeen seawater samples were received for this project on 3 November, 2014. The samples were transferred to the laboratory in an ice-chest with wet ice, following strict chain-of-custody (COC) procedures. The temperature of the samples upon receipt at the laboratory was 1.6-1.7°C. All samples were given laboratory identification numbers and logged into the Laboratory Information Management System (LIMS).

Tests Performed

Total Suspended Solids by SM 2540B (M)
Total and Dissolved Metals by EPA 1640/1631
Chlorinated Pesticides by EPA 8081A
PCB Congeners by EPA 8270C SIM

Data Summary

Samples were filtered in the laboratory for the dissolved metals analyses.

Holding times

All holding times were met.

Calibration

Frequency and control criteria for initial and continuing calibration verifications were met.

Reporting Limits

All Method Detection Limits were met. The results were evaluated to the MDL, and where applicable, "J" flags were reported.

Blanks

Concentrations of target analytes in the method blank were found to be below reporting limits for all testing.

Trace levels (below the RL, but above the MDL) of Mercury were detected in the EPA 1631 Method Blanks. If detected in the samples, the results are flagged with B-qualifiers.

Laboratory Control Samples

A Laboratory Control Sample (LCS) analysis was performed at the required frequencies, and unless otherwise noted, all parameters were within the established control limits.

Matrix Spikes and QC Duplicates

Matrix spike analyses and/or QC Duplicates were performed for each applicable analysis as sample volume allowed. All parameters were within the established control limits unless otherwise noted (non-project spike/duplicate samples, if any, are not discussed).

The concentration of Copper detected in the sample used for matrix spiking exceeded the matrix spike amounts by four times or more causing the recoveries to be outside of control limits.

Surrogates

Surrogate recoveries for all applicable tests and samples were within the established control limits.

Acronyms

LCS - Laboratory Control Sample
MS/MSD- Matrix Spike/Matrix Spike Duplicate
PDS - Post Digestion Spike
RPD- Relative Percent Difference

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 11/03/14. They were assigned to Work Order 14-11-0050.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of ≤ 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

New York NELAP air certification does not certify for all reported methods and analytes, reference the accredited items here: http://www.calscience.com/PDF/New_York.pdf

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.



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Sample Summary

| | |
|------------------------------|---|
| Client: ANCHOR QEA, LLC | Work Order: 14-11-0050 |
| 27201 Puerta Real, Suite 350 | Project Name: GWMA - TMDL Compliance Monitoring |
| Mission Viejo, CA 92691-8306 | PO Number: |
| | Date/Time Received: 11/03/14 10:00 |
| | Number of Containers: 65 |

Attn: Andy Martin

| Sample Identification | Lab Number | Collection Date and Time | Number of Containers | Matrix |
|-------------------------------|---------------|--------------------------|----------------------|-----------|
| LE-RW-22-G-S-20141102 | 14-11-0050-1 | 11/02/14 08:35 | 8 | Sea Water |
| LE-RW-22-G-M-20141102 | 14-11-0050-2 | 11/02/14 08:35 | 1 | Sea Water |
| LE-RW-22-G-B-20141102 | 14-11-0050-3 | 11/02/14 08:35 | 1 | Sea Water |
| LE-RW-21-G-S-20141102 | 14-11-0050-4 | 11/02/14 10:47 | 8 | Sea Water |
| LE-RW-21-G-M-20141102 | 14-11-0050-5 | 11/02/14 10:47 | 1 | Sea Water |
| LE-RW-21-G-B-20141102 | 14-11-0050-6 | 11/02/14 10:47 | 1 | Sea Water |
| LE-RW-1021-G-S-20141102 | 14-11-0050-7 | 11/02/14 10:47 | 7 | Sea Water |
| SP-RW-18-G-S-20141102 | 14-11-0050-8 | 11/02/14 11:34 | 8 | Sea Water |
| SP-RW-18-G-M-20141102 | 14-11-0050-9 | 11/02/14 11:34 | 1 | Sea Water |
| SP-RW-18-G-B-20141102 | 14-11-0050-10 | 11/02/14 11:34 | 1 | Sea Water |
| SP-RW-20-G-S-20141102 | 14-11-0050-11 | 11/02/14 13:00 | 8 | Sea Water |
| SP-RW-20-G-M-20141102 | 14-11-0050-12 | 11/02/14 13:00 | 1 | Sea Water |
| SP-RW-20-G-B-20141102 | 14-11-0050-13 | 11/02/14 13:00 | 1 | Sea Water |
| SP-RW-19-G-S-20141102 | 14-11-0050-14 | 11/02/14 13:30 | 8 | Sea Water |
| SP-RW-19-G-M-20141102 | 14-11-0050-15 | 11/02/14 13:30 | 1 | Sea Water |
| SP-RW-19-G-B-20141102 | 14-11-0050-16 | 11/02/14 13:30 | 2 | Sea Water |
| EB20141102 | 14-11-0050-17 | 11/02/14 14:00 | 6 | Sea Water |
| SP-RW-19-G-b-20141102-LAB DUP | 14-11-0050-18 | 11/03/14 00:00 | 1 | Sea Water |


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Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 11/03/14
Work Order: 14-11-0050
Preparation: N/A
Method: SM 2540 D
Units: mg/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| LE-RW-22-G-S-20141102 | 14-11-0050-1-H | 11/02/14 08:35 | Sea Water | N/A | 11/06/14 | 11/06/14 15:30 | E1106TSSL2 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 6.9 | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| LE-RW-22-G-M-20141102 | 14-11-0050-2-A | 11/02/14 08:35 | Sea Water | N/A | 11/06/14 | 11/06/14 15:30 | E1106TSSL2 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 8.4 | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| LE-RW-22-G-B-20141102 | 14-11-0050-3-A | 11/02/14 08:35 | Sea Water | N/A | 11/06/14 | 11/06/14 15:30 | E1106TSSL2 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 5.4 | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| LE-RW-21-G-S-20141102 | 14-11-0050-4-H | 11/02/14 10:47 | Sea Water | N/A | 11/06/14 | 11/06/14 15:30 | E1106TSSL2 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 7.2 | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| SP-RW-18-G-S-20141102 | 14-11-0050-8-H | 11/02/14 11:34 | Sea Water | N/A | 11/06/14 | 11/06/14 15:30 | E1106TSSL2 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 4.3 | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| SP-RW-18-G-M-20141102 | 14-11-0050-9-A | 11/02/14 11:34 | Sea Water | N/A | 11/06/14 | 11/06/14 15:30 | E1106TSSL2 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 2.6 | 1.0 | 0.95 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 11/03/14
Work Order: 14-11-0050
Preparation: N/A
Method: SM 2540 D
Units: mg/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| SP-RW-18-G-B-20141102 | 14-11-0050-10-A | 11/02/14 11:34 | Sea Water | N/A | 11/06/14 | 11/06/14 15:30 | E1106TSSL2 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 1.5 | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| SP-RW-20-G-S-20141102 | 14-11-0050-11-A | 11/02/14 13:00 | Sea Water | N/A | 11/06/14 | 11/06/14 15:30 | E1106TSSL2 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 1.3 | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| SP-RW-20-G-M-20141102 | 14-11-0050-12-A | 11/02/14 13:00 | Sea Water | N/A | 11/06/14 | 11/06/14 15:30 | E1106TSSL2 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 1.0 | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| SP-RW-20-G-B-20141102 | 14-11-0050-13-A | 11/02/14 13:00 | Sea Water | N/A | 11/06/14 | 11/06/14 15:30 | E1106TSSL2 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 1.5 | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| SP-RW-19-G-S-20141102 | 14-11-0050-14-H | 11/02/14 13:30 | Sea Water | N/A | 11/06/14 | 11/06/14 15:30 | E1106TSSL2 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 1.8 | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| SP-RW-19-G-M-20141102 | 14-11-0050-15-A | 11/02/14 13:30 | Sea Water | N/A | 11/06/14 | 11/06/14 15:30 | E1106TSSL2 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 1.2 | 1.0 | 0.95 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 11/03/14
Work Order: 14-11-0050
Preparation: N/A
Method: SM 2540 D
Units: mg/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| SP-RW-19-G-B-20141102 | 14-11-0050-16-A | 11/02/14 13:30 | Sea Water | N/A | 11/06/14 | 11/06/14 15:30 | E1106TSSL2 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 1.0 | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-------------------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| SP-RW-19-G-b-20141102-LAB DUP | 14-11-0050-18-16B | 11/03/14 00:00 | Sea Water | N/A | 11/06/14 | 11/06/14 15:30 | E1106TSSL2 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 2.3 | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|---------|------------|---------------|--------------------|-------------|
| Method Blank | 099-09-010-6856 | N/A | Aqueous | N/A | 11/06/14 | 11/06/14 15:30 | E1106TSSL2 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | ND | 1.0 | 0.95 | 1.00 | |

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 11/03/14
Work Order: 14-11-0050
Preparation: EPA 1631E Total
Method: EPA 1631E
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| LE-RW-22-G-S-20141102 | 14-11-0050-1-B | 11/02/14 08:35 | Sea Water | Hg/AF 1 | 11/14/14 | 11/14/14 00:00 | 141114L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|---------|----------|----------|------|------------|
| Mercury | 0.00311 | 0.000500 | 0.000113 | 1.00 | B |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| LE-RW-21-G-S-20141102 | 14-11-0050-4-B | 11/02/14 10:47 | Sea Water | Hg/AF 1 | 11/14/14 | 11/14/14 00:00 | 141114L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|---------|----------|----------|------|------------|
| Mercury | 0.00419 | 0.000500 | 0.000113 | 1.00 | B |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-------------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| LE-RW-1021-G-S-20141102 | 14-11-0050-7-B | 11/02/14 10:47 | Sea Water | Hg/AF 1 | 11/14/14 | 11/14/14 00:00 | 141114L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|---------|----------|----------|------|------------|
| Mercury | 0.00267 | 0.000500 | 0.000113 | 1.00 | B |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| SP-RW-18-G-S-20141102 | 14-11-0050-8-B | 11/02/14 11:34 | Sea Water | Hg/AF 1 | 11/14/14 | 11/14/14 00:00 | 141114L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|---------|----------|----------|------|------------|
| Mercury | 0.00248 | 0.000500 | 0.000113 | 1.00 | B |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| SP-RW-20-G-S-20141102 | 14-11-0050-11-B | 11/02/14 13:00 | Sea Water | Hg/AF 1 | 11/14/14 | 11/14/14 00:00 | 141114L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|---------|----------|----------|------|------------|
| Mercury | 0.00140 | 0.000500 | 0.000113 | 1.00 | B |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| SP-RW-19-G-S-20141102 | 14-11-0050-14-B | 11/02/14 13:30 | Sea Water | Hg/AF 1 | 11/14/14 | 11/14/14 00:00 | 141114L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|----------|----------|----------|------|------------|
| Mercury | 0.000994 | 0.000500 | 0.000113 | 1.00 | B |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

| | | |
|------------------------------|----------------|-----------------|
| ANCHOR QEA, LLC | Date Received: | 11/03/14 |
| 27201 Puerta Real, Suite 350 | Work Order: | 14-11-0050 |
| Mission Viejo, CA 92691-8306 | Preparation: | EPA 1631E Total |
| | Method: | EPA 1631E |
| | Units: | ug/L |

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| EB20141102 | 14-11-0050-17-B | 11/02/14 14:00 | Sea Water | Hg/AF 1 | 11/14/14 | 11/14/14 00:00 | 141114L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|---------------|-----------|------------|-----------|-------------------|
| Mercury | 0.000596 | 0.000500 | 0.000113 | 1.00 | B |

| | | | | | | | |
|---------------------|----------------------|------------|----------------|----------------|-----------------|---------------------------|------------------|
| Method Blank | 099-15-224-64 | N/A | Aqueous | Hg/AF 1 | 11/14/14 | 11/14/14 00:00 | 141114L01 |
|---------------------|----------------------|------------|----------------|----------------|-----------------|---------------------------|------------------|

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|---------------|-----------|------------|-----------|-------------------|
| Mercury | 0.000158 | 0.000500 | 0.000113 | 1.00 | J |

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 11/03/14
Work Order: 14-11-0050
Preparation: Filtered
Method: EPA 1631E
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| LE-RW-22-G-S-20141102 | 14-11-0050-1-A | 11/02/14 08:35 | Sea Water | Hg/AF 1 | 11/14/14 | 11/14/14 00:00 | 141114L01F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|----------|----------|----------|------|------------|
| Mercury | 0.000877 | 0.000500 | 0.000113 | 1.00 | B |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| LE-RW-21-G-S-20141102 | 14-11-0050-4-A | 11/02/14 10:47 | Sea Water | Hg/AF 1 | 11/14/14 | 11/14/14 00:00 | 141114L01F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|----------|----------|----------|------|------------|
| Mercury | 0.000992 | 0.000500 | 0.000113 | 1.00 | B |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-------------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| LE-RW-1021-G-S-20141102 | 14-11-0050-7-A | 11/02/14 10:47 | Sea Water | Hg/AF 1 | 11/14/14 | 11/14/14 00:00 | 141114L01F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|----------|----------|----------|------|------------|
| Mercury | 0.000752 | 0.000500 | 0.000113 | 1.00 | B |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| SP-RW-18-G-S-20141102 | 14-11-0050-8-A | 11/02/14 11:34 | Sea Water | Hg/AF 1 | 11/14/14 | 11/14/14 00:00 | 141114L01F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|----------|----------|----------|------|------------|
| Mercury | 0.000875 | 0.000500 | 0.000113 | 1.00 | B |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| SP-RW-20-G-S-20141102 | 14-11-0050-11-A | 11/02/14 13:00 | Sea Water | Hg/AF 1 | 11/14/14 | 11/14/14 00:00 | 141114L01F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|----------|----------|----------|------|------------|
| Mercury | 0.000688 | 0.000500 | 0.000113 | 1.00 | B |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| SP-RW-19-G-S-20141102 | 14-11-0050-14-A | 11/02/14 13:30 | Sea Water | Hg/AF 1 | 11/14/14 | 11/14/14 00:00 | 141114L01F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|----------|----------|----------|------|------------|
| Mercury | 0.000649 | 0.000500 | 0.000113 | 1.00 | B |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

| | | |
|------------------------------|----------------|------------|
| ANCHOR QEA, LLC | Date Received: | 11/03/14 |
| 27201 Puerta Real, Suite 350 | Work Order: | 14-11-0050 |
| Mission Viejo, CA 92691-8306 | Preparation: | Filtered |
| | Method: | EPA 1631E |
| | Units: | ug/L |

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| EB20141102 | 14-11-0050-17-A | 11/02/14 14:00 | Sea Water | Hg/AF 1 | 11/14/14 | 11/14/14 00:00 | 141114L01F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|----------|----------|----------|------|------------|
| Mercury | 0.000244 | 0.000500 | 0.000113 | 1.00 | B,J |

| Method Blank | 099-15-226-50 | N/A | Aqueous | Hg/AF 1 | 11/14/14 | 11/14/14 00:00 | 141114L01F |
|--------------|---------------|-----|---------|---------|----------|-------------------|------------|
| | | | | | | | |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|----------|----------|----------|------|------------|
| Mercury | 0.000173 | 0.000500 | 0.000113 | 1.00 | J |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 11/03/14
Work Order: 14-11-0050
Preparation: EPA 3005A Total
Method: EPA 1640
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| LE-RW-22-G-S-20141102 | 14-11-0050-1-C | 11/02/14 08:35 | Sea Water | ICP/MS 05 | 11/10/14 | 11/11/14 17:48 | 141110L02 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0688 | 0.0300 | 0.00567 | 1.00 | B |
| Chromium | 0.430 | 0.500 | 0.164 | 1.00 | J |
| Copper | 3.44 | 0.0300 | 0.00898 | 1.00 | B |
| Lead | 1.91 | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 17.5 | 0.500 | 0.0736 | 1.00 | B |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| LE-RW-21-G-S-20141102 | 14-11-0050-4-C | 11/02/14 10:47 | Sea Water | ICP/MS 05 | 11/10/14 | 11/11/14 17:56 | 141110L02 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0913 | 0.0300 | 0.00567 | 1.00 | B |
| Chromium | 0.626 | 0.500 | 0.164 | 1.00 | |
| Copper | 6.76 | 0.0300 | 0.00898 | 1.00 | B |
| Lead | 1.99 | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 28.6 | 0.500 | 0.0736 | 1.00 | B |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-------------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| LE-RW-1021-G-S-20141102 | 14-11-0050-7-C | 11/02/14 10:47 | Sea Water | ICP/MS 05 | 11/10/14 | 11/11/14 18:04 | 141110L02 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0717 | 0.0300 | 0.00567 | 1.00 | B |
| Chromium | 0.436 | 0.500 | 0.164 | 1.00 | J |
| Copper | 3.18 | 0.0300 | 0.00898 | 1.00 | B |
| Lead | 1.37 | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 14.3 | 0.500 | 0.0736 | 1.00 | B |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 11/03/14
Work Order: 14-11-0050
Preparation: EPA 3005A Total
Method: EPA 1640
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| SP-RW-18-G-S-20141102 | 14-11-0050-8-C | 11/02/14 11:34 | Sea Water | ICP/MS 05 | 11/10/14 | 11/11/14 18:12 | 141110L02 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0770 | 0.0300 | 0.00567 | 1.00 | B |
| Chromium | 0.439 | 0.500 | 0.164 | 1.00 | J |
| Copper | 4.45 | 0.0300 | 0.00898 | 1.00 | B |
| Lead | 1.29 | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 18.4 | 0.500 | 0.0736 | 1.00 | B |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| SP-RW-20-G-S-20141102 | 14-11-0050-11-C | 11/02/14 13:00 | Sea Water | ICP/MS 05 | 11/10/14 | 11/11/14 18:20 | 141110L02 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0493 | 0.0300 | 0.00567 | 1.00 | B |
| Chromium | 0.323 | 0.500 | 0.164 | 1.00 | J |
| Copper | 1.03 | 0.0300 | 0.00898 | 1.00 | B |
| Lead | 0.434 | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 5.95 | 0.500 | 0.0736 | 1.00 | B |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| SP-RW-19-G-S-20141102 | 14-11-0050-14-C | 11/02/14 13:30 | Sea Water | ICP/MS 05 | 11/10/14 | 11/11/14 19:00 | 141110L02 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0432 | 0.0300 | 0.00567 | 1.00 | B |
| Chromium | 0.302 | 0.500 | 0.164 | 1.00 | J |
| Copper | 0.886 | 0.0300 | 0.00898 | 1.00 | B |
| Lead | 0.372 | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 6.62 | 0.500 | 0.0736 | 1.00 | B |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 11/03/14
Work Order: 14-11-0050
Preparation: EPA 3005A Total
Method: EPA 1640
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| EB20141102 | 14-11-0050-17-C | 11/02/14 14:00 | Sea Water | ICP/MS 05 | 11/10/14 | 11/11/14 16:19 | 141110L02 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|---------|--------|---------|------|------------|
| Cadmium | 0.00780 | 0.0300 | 0.00567 | 1.00 | B,J |
| Chromium | ND | 0.500 | 0.164 | 1.00 | |
| Copper | 0.339 | 0.0300 | 0.00898 | 1.00 | B |
| Lead | 0.0779 | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 0.688 | 0.500 | 0.0736 | 1.00 | B |

| Method Blank | 099-13-067-461 | N/A | Aqueous | ICP/MS 05 | 11/10/14 | 11/11/14 14:19 | 141110L02 |
|--------------|----------------|-----|---------|-----------|----------|-------------------|-----------|
|--------------|----------------|-----|---------|-----------|----------|-------------------|-----------|

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|---------|--------|---------|------|------------|
| Cadmium | 0.00648 | 0.0300 | 0.00567 | 1.00 | J |
| Chromium | ND | 0.500 | 0.164 | 1.00 | |
| Copper | 0.0142 | 0.0300 | 0.00898 | 1.00 | J |
| Lead | ND | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 0.212 | 0.500 | 0.0736 | 1.00 | J |

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 11/03/14
Work Order: 14-11-0050
Preparation: EPA 3005A Filt.
Method: EPA 1640
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| LE-RW-22-G-S-20141102 | 14-11-0050-1-D | 11/02/14 08:35 | Sea Water | ICP/MS 05 | 11/10/14 | 11/11/14 16:27 | 141110L02F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0633 | 0.0300 | 0.00567 | 1.00 | B |
| Chromium | 0.315 | 0.500 | 0.164 | 1.00 | J |
| Copper | 2.70 | 0.0300 | 0.00898 | 1.00 | B |
| Lead | 0.336 | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 16.7 | 0.500 | 0.0736 | 1.00 | B |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| LE-RW-21-G-S-20141102 | 14-11-0050-4-D | 11/02/14 10:47 | Sea Water | ICP/MS 05 | 11/10/14 | 11/11/14 16:35 | 141110L02F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0821 | 0.0300 | 0.00567 | 1.00 | B |
| Chromium | 0.365 | 0.500 | 0.164 | 1.00 | J |
| Copper | 4.48 | 0.0300 | 0.00898 | 1.00 | B |
| Lead | 0.263 | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 23.2 | 0.500 | 0.0736 | 1.00 | B |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-------------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| LE-RW-1021-G-S-20141102 | 14-11-0050-7-D | 11/02/14 10:47 | Sea Water | ICP/MS 05 | 11/10/14 | 11/11/14 17:16 | 141110L02F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0663 | 0.0300 | 0.00567 | 1.00 | B |
| Chromium | 0.208 | 0.500 | 0.164 | 1.00 | J |
| Copper | 1.58 | 0.0300 | 0.00898 | 1.00 | B |
| Lead | 0.0993 | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 10.2 | 0.500 | 0.0736 | 1.00 | B |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 11/03/14
Work Order: 14-11-0050
Preparation: EPA 3005A Filt.
Method: EPA 1640
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| SP-RW-18-G-S-20141102 | 14-11-0050-8-D | 11/02/14 11:34 | Sea Water | ICP/MS 05 | 11/10/14 | 11/11/14 17:24 | 141110L02F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0782 | 0.0300 | 0.00567 | 1.00 | B |
| Chromium | 0.270 | 0.500 | 0.164 | 1.00 | J |
| Copper | 2.66 | 0.0300 | 0.00898 | 1.00 | B |
| Lead | 0.182 | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 15.3 | 0.500 | 0.0736 | 1.00 | B |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| SP-RW-20-G-S-20141102 | 14-11-0050-11-D | 11/02/14 13:00 | Sea Water | ICP/MS 05 | 11/10/14 | 11/11/14 17:32 | 141110L02F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0458 | 0.0300 | 0.00567 | 1.00 | B |
| Chromium | 0.250 | 0.500 | 0.164 | 1.00 | J |
| Copper | 0.785 | 0.0300 | 0.00898 | 1.00 | B |
| Lead | 0.0896 | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 4.15 | 0.500 | 0.0736 | 1.00 | B |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| SP-RW-19-G-S-20141102 | 14-11-0050-14-D | 11/02/14 13:30 | Sea Water | ICP/MS 05 | 11/10/14 | 11/11/14 17:40 | 141110L02F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0409 | 0.0300 | 0.00567 | 1.00 | B |
| Chromium | 0.255 | 0.500 | 0.164 | 1.00 | J |
| Copper | 0.644 | 0.0300 | 0.00898 | 1.00 | B |
| Lead | 0.0881 | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 3.24 | 0.500 | 0.0736 | 1.00 | B |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 11/03/14
Work Order: 14-11-0050
Preparation: EPA 3005A Filt.
Method: EPA 1640
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| EB20141102 | 14-11-0050-17-D | 11/02/14 14:00 | Sea Water | ICP/MS 05 | 11/10/14 | 11/11/14 16:11 | 141110L02F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|---------|--------|---------|------|------------|
| Cadmium | 0.00793 | 0.0300 | 0.00567 | 1.00 | B,J |
| Chromium | ND | 0.500 | 0.164 | 1.00 | |
| Copper | 0.226 | 0.0300 | 0.00898 | 1.00 | B |
| Lead | 0.0333 | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 0.604 | 0.500 | 0.0736 | 1.00 | B |

| Method Blank | 099-15-823-120 | N/A | Aqueous | ICP/MS 05 | 11/10/14 | 11/11/14 14:27 | 141110L02F |
|--------------|----------------|-----|---------|-----------|----------|-------------------|------------|
|--------------|----------------|-----|---------|-----------|----------|-------------------|------------|

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|---------|--------|---------|------|------------|
| Cadmium | 0.00634 | 0.0300 | 0.00567 | 1.00 | J |
| Chromium | ND | 0.500 | 0.164 | 1.00 | |
| Copper | 0.0131 | 0.0300 | 0.00898 | 1.00 | J |
| Lead | ND | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 0.206 | 0.500 | 0.0736 | 1.00 | J |

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 11/03/14
 Work Order: 14-11-0050
 Preparation: EPA 3510C
 Method: EPA 8081A
 Units: ng/L

Project: GWMA - TMDL Compliance Monitoring

Page 1 of 8

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| LE-RW-22-G-S-20141102 | 14-11-0050-1-F | 11/02/14 08:35 | Sea Water | GC 44 | 11/07/14 | 11/07/14 16:08 | 141107L03 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------------------------|----------|----------------|------------|------|------------|
| 2,4'-DDD | ND | 2.0 | 0.58 | 1.00 | |
| 2,4'-DDE | ND | 2.0 | 0.49 | 1.00 | |
| 2,4'-DDT | ND | 2.0 | 0.69 | 1.00 | |
| 4,4'-DDD | ND | 2.0 | 0.55 | 1.00 | |
| 4,4'-DDE | ND | 2.0 | 0.48 | 1.00 | |
| 4,4'-DDT | ND | 2.0 | 0.55 | 1.00 | |
| Alpha Chlordane | ND | 2.0 | 0.49 | 1.00 | |
| Cis-nonachlor | ND | 2.0 | 0.50 | 1.00 | |
| Dieldrin | ND | 2.0 | 0.55 | 1.00 | |
| Gamma Chlordane | ND | 2.0 | 0.49 | 1.00 | |
| Oxychlordane | ND | 2.0 | 0.63 | 1.00 | |
| Toxaphene | ND | 25 | 8.2 | 1.00 | |
| Trans-nonachlor | ND | 2.0 | 0.56 | 1.00 | |
| Surrogate | Rec. (%) | Control Limits | Qualifiers | | |
| Decachlorobiphenyl | 109 | 50-150 | | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 89 | 50-150 | | | |



 Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 11/03/14
Work Order: 14-11-0050
Preparation: EPA 3510C
Method: EPA 8081A
Units: ng/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| LE-RW-21-G-S-20141102 | 14-11-0050-4-F | 11/02/14 10:47 | Sea Water | GC 44 | 11/07/14 | 11/07/14 16:23 | 141107L03 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------------------------|----------|----------------|------------|------|------------|
| 2,4'-DDD | ND | 1.9 | 0.57 | 1.00 | |
| 2,4'-DDE | ND | 1.9 | 0.47 | 1.00 | |
| 2,4'-DDT | ND | 1.9 | 0.67 | 1.00 | |
| 4,4'-DDD | ND | 1.9 | 0.53 | 1.00 | |
| 4,4'-DDE | ND | 1.9 | 0.46 | 1.00 | |
| 4,4'-DDT | ND | 1.9 | 0.54 | 1.00 | |
| Alpha Chlordane | ND | 1.9 | 0.48 | 1.00 | |
| Cis-nonachlor | ND | 1.9 | 0.49 | 1.00 | |
| Dieldrin | ND | 1.9 | 0.53 | 1.00 | |
| Gamma Chlordane | ND | 1.9 | 0.47 | 1.00 | |
| Oxychlordane | ND | 1.9 | 0.61 | 1.00 | |
| Toxaphene | ND | 24 | 8.0 | 1.00 | |
| Trans-nonachlor | ND | 1.9 | 0.54 | 1.00 | |
| Surrogate | Rec. (%) | Control Limits | Qualifiers | | |
| Decachlorobiphenyl | 102 | 50-150 | | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 91 | 50-150 | | | |

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 11/03/14
 Work Order: 14-11-0050
 Preparation: EPA 3510C
 Method: EPA 8081A
 Units: ng/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-------------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| LE-RW-1021-G-S-20141102 | 14-11-0050-7-F | 11/02/14 10:47 | Sea Water | GC 44 | 11/07/14 | 11/07/14 16:37 | 141107L03 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------------------------|----------|----------------|------------|------|------------|
| 2,4'-DDD | ND | 2.0 | 0.58 | 1.00 | |
| 2,4'-DDE | ND | 2.0 | 0.49 | 1.00 | |
| 2,4'-DDT | ND | 2.0 | 0.69 | 1.00 | |
| 4,4'-DDD | ND | 2.0 | 0.55 | 1.00 | |
| 4,4'-DDE | ND | 2.0 | 0.48 | 1.00 | |
| 4,4'-DDT | ND | 2.0 | 0.55 | 1.00 | |
| Alpha Chlordane | ND | 2.0 | 0.49 | 1.00 | |
| Cis-nonachlor | ND | 2.0 | 0.50 | 1.00 | |
| Dieldrin | ND | 2.0 | 0.55 | 1.00 | |
| Gamma Chlordane | ND | 2.0 | 0.49 | 1.00 | |
| Oxychlordane | ND | 2.0 | 0.63 | 1.00 | |
| Toxaphene | ND | 25 | 8.2 | 1.00 | |
| Trans-nonachlor | ND | 2.0 | 0.56 | 1.00 | |
| Surrogate | Rec. (%) | Control Limits | Qualifiers | | |
| Decachlorobiphenyl | 101 | 50-150 | | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 93 | 50-150 | | | |


 Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 11/03/14
 Work Order: 14-11-0050
 Preparation: EPA 3510C
 Method: EPA 8081A
 Units: ng/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| SP-RW-18-G-S-20141102 | 14-11-0050-8-F | 11/02/14 11:34 | Sea Water | GC 44 | 11/07/14 | 11/07/14 16:51 | 141107L03 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------------------------|----------|----------------|------------|------|------------|
| 2,4'-DDD | ND | 2.0 | 0.58 | 1.00 | |
| 2,4'-DDE | ND | 2.0 | 0.49 | 1.00 | |
| 2,4'-DDT | ND | 2.0 | 0.69 | 1.00 | |
| 4,4'-DDD | ND | 2.0 | 0.55 | 1.00 | |
| 4,4'-DDE | ND | 2.0 | 0.48 | 1.00 | |
| 4,4'-DDT | ND | 2.0 | 0.55 | 1.00 | |
| Alpha Chlordane | ND | 2.0 | 0.49 | 1.00 | |
| Cis-nonachlor | ND | 2.0 | 0.50 | 1.00 | |
| Dieldrin | ND | 2.0 | 0.55 | 1.00 | |
| Gamma Chlordane | ND | 2.0 | 0.49 | 1.00 | |
| Oxychlordane | ND | 2.0 | 0.63 | 1.00 | |
| Toxaphene | ND | 25 | 8.2 | 1.00 | |
| Trans-nonachlor | ND | 2.0 | 0.56 | 1.00 | |
| Surrogate | Rec. (%) | Control Limits | Qualifiers | | |
| Decachlorobiphenyl | 82 | 50-150 | | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 78 | 50-150 | | | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 11/03/14
 Work Order: 14-11-0050
 Preparation: EPA 3510C
 Method: EPA 8081A
 Units: ng/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| SP-RW-20-G-S-20141102 | 14-11-0050-11-F | 11/02/14 13:00 | Sea Water | GC 44 | 11/07/14 | 11/07/14 17:06 | 141107L03 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------------------------|----------|----------------|------------|------|------------|
| 2,4'-DDD | ND | 2.0 | 0.58 | 1.00 | |
| 2,4'-DDE | ND | 2.0 | 0.49 | 1.00 | |
| 2,4'-DDT | ND | 2.0 | 0.69 | 1.00 | |
| 4,4'-DDD | ND | 2.0 | 0.55 | 1.00 | |
| 4,4'-DDE | ND | 2.0 | 0.48 | 1.00 | |
| 4,4'-DDT | ND | 2.0 | 0.55 | 1.00 | |
| Alpha Chlordane | ND | 2.0 | 0.49 | 1.00 | |
| Cis-nonachlor | ND | 2.0 | 0.50 | 1.00 | |
| Dieldrin | ND | 2.0 | 0.55 | 1.00 | |
| Gamma Chlordane | ND | 2.0 | 0.49 | 1.00 | |
| Oxychlordane | ND | 2.0 | 0.63 | 1.00 | |
| Toxaphene | ND | 25 | 8.2 | 1.00 | |
| Trans-nonachlor | ND | 2.0 | 0.56 | 1.00 | |
| Surrogate | Rec. (%) | Control Limits | Qualifiers | | |
| Decachlorobiphenyl | 109 | 50-150 | | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 91 | 50-150 | | | |



 Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 11/03/14
Work Order: 14-11-0050
Preparation: EPA 3510C
Method: EPA 8081A
Units: ng/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| SP-RW-19-G-S-20141102 | 14-11-0050-14-F | 11/02/14 13:30 | Sea Water | GC 44 | 11/07/14 | 11/07/14 17:20 | 141107L03 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------------------------|----------|----------------|------------|------|------------|
| 2,4'-DDD | ND | 2.0 | 0.57 | 1.00 | |
| 2,4'-DDE | ND | 2.0 | 0.48 | 1.00 | |
| 2,4'-DDT | ND | 2.0 | 0.67 | 1.00 | |
| 4,4'-DDD | ND | 2.0 | 0.54 | 1.00 | |
| 4,4'-DDE | ND | 2.0 | 0.47 | 1.00 | |
| 4,4'-DDT | ND | 2.0 | 0.54 | 1.00 | |
| Alpha Chlordane | ND | 2.0 | 0.48 | 1.00 | |
| Cis-nonachlor | ND | 2.0 | 0.49 | 1.00 | |
| Dieldrin | ND | 2.0 | 0.54 | 1.00 | |
| Gamma Chlordane | ND | 2.0 | 0.48 | 1.00 | |
| Oxychlordane | ND | 2.0 | 0.61 | 1.00 | |
| Toxaphene | ND | 25 | 8.1 | 1.00 | |
| Trans-nonachlor | ND | 2.0 | 0.55 | 1.00 | |
| Surrogate | Rec. (%) | Control Limits | Qualifiers | | |
| Decachlorobiphenyl | 102 | 50-150 | | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 82 | 50-150 | | | |

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 11/03/14
Work Order: 14-11-0050
Preparation: EPA 3510C
Method: EPA 8081A
Units: ng/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| EB20141102 | 14-11-0050-17-F | 11/02/14 14:00 | Sea Water | GC 44 | 11/07/14 | 11/07/14 17:33 | 141107L03 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------------------------|----------|----------------|------------|------|------------|
| 2,4'-DDD | ND | 2.0 | 0.58 | 1.00 | |
| 2,4'-DDE | ND | 2.0 | 0.49 | 1.00 | |
| 2,4'-DDT | ND | 2.0 | 0.69 | 1.00 | |
| 4,4'-DDD | ND | 2.0 | 0.55 | 1.00 | |
| 4,4'-DDE | ND | 2.0 | 0.48 | 1.00 | |
| 4,4'-DDT | ND | 2.0 | 0.55 | 1.00 | |
| Alpha Chlordane | ND | 2.0 | 0.49 | 1.00 | |
| Cis-nonachlor | ND | 2.0 | 0.50 | 1.00 | |
| Dieldrin | ND | 2.0 | 0.55 | 1.00 | |
| Gamma Chlordane | ND | 2.0 | 0.49 | 1.00 | |
| Oxychlordane | ND | 2.0 | 0.63 | 1.00 | |
| Toxaphene | ND | 25 | 8.2 | 1.00 | |
| Trans-nonachlor | ND | 2.0 | 0.56 | 1.00 | |
| Surrogate | Rec. (%) | Control Limits | Qualifiers | | |
| Decachlorobiphenyl | 97 | 50-150 | | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 79 | 50-150 | | | |

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 11/03/14
Work Order: 14-11-0050
Preparation: EPA 3510C
Method: EPA 8081A
Units: ng/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|----------------------|---------------------|----------------|--------------|-----------------|---------------------------|------------------|
| Method Blank | 099-16-036-11 | N/A | Aqueous | GC 44 | 11/07/14 | 11/07/14 15:25 | 141107L03 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------------------|-----------------|-----------------------|-------------------|-----------|-------------------|
| 2,4'-DDD | ND | 2.0 | 0.58 | 1.00 | |
| 2,4'-DDE | ND | 2.0 | 0.49 | 1.00 | |
| 2,4'-DDT | ND | 2.0 | 0.69 | 1.00 | |
| 4,4'-DDD | ND | 2.0 | 0.55 | 1.00 | |
| 4,4'-DDE | ND | 2.0 | 0.48 | 1.00 | |
| 4,4'-DDT | ND | 2.0 | 0.55 | 1.00 | |
| Alpha Chlordane | ND | 2.0 | 0.49 | 1.00 | |
| Cis-nonachlor | ND | 2.0 | 0.50 | 1.00 | |
| Dieldrin | ND | 2.0 | 0.55 | 1.00 | |
| Gamma Chlordane | ND | 2.0 | 0.49 | 1.00 | |
| Oxychlordane | ND | 2.0 | 0.63 | 1.00 | |
| Toxaphene | ND | 25 | 8.2 | 1.00 | |
| Trans-nonachlor | ND | 2.0 | 0.56 | 1.00 | |
| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> | | |
| Decachlorobiphenyl | 103 | 50-150 | | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 108 | 50-150 | | | |

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 11/03/14
Work Order: 14-11-0050
Preparation: EPA 3510C
Method: EPA 8270C SIM PCB Congeners
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

Page 1 of 16

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| LE-RW-22-G-S-20141102 | 14-11-0050-1-E | 11/02/14 08:35 | Sea Water | GC/MS HHH | 11/08/14 | 11/10/14 15:35 | 141108L05 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------|--------|--------|---------|------|------------|
| PCB018 | ND | 0.0020 | 0.00042 | 1.00 | |
| PCB028 | ND | 0.0020 | 0.00066 | 1.00 | |
| PCB037 | ND | 0.0020 | 0.00048 | 1.00 | |
| PCB044 | ND | 0.0020 | 0.00078 | 1.00 | |
| PCB049 | ND | 0.0020 | 0.00078 | 1.00 | |
| PCB052 | ND | 0.0020 | 0.00051 | 1.00 | |
| PCB066 | ND | 0.0020 | 0.00057 | 1.00 | |
| PCB070 | ND | 0.0020 | 0.00038 | 1.00 | |
| PCB074 | ND | 0.0020 | 0.00043 | 1.00 | |
| PCB077 | ND | 0.0020 | 0.00065 | 1.00 | |
| PCB081 | ND | 0.0020 | 0.00048 | 1.00 | |
| PCB087 | ND | 0.0020 | 0.00050 | 1.00 | |
| PCB099 | ND | 0.0020 | 0.00060 | 1.00 | |
| PCB101 | ND | 0.0020 | 0.00058 | 1.00 | |
| PCB105 | ND | 0.0020 | 0.00038 | 1.00 | |
| PCB110 | ND | 0.0020 | 0.00050 | 1.00 | |
| PCB114 | ND | 0.0020 | 0.00044 | 1.00 | |
| PCB118 | ND | 0.0020 | 0.00049 | 1.00 | |
| PCB119 | ND | 0.0020 | 0.00043 | 1.00 | |
| PCB123 | ND | 0.0020 | 0.00077 | 1.00 | |
| PCB126 | ND | 0.0020 | 0.00055 | 1.00 | |
| PCB128 | ND | 0.0020 | 0.00070 | 1.00 | |
| PCB132/153 | ND | 0.0040 | 0.0012 | 1.00 | |
| PCB138/158 | ND | 0.0040 | 0.0011 | 1.00 | |
| PCB149 | ND | 0.0020 | 0.00050 | 1.00 | |
| PCB151 | ND | 0.0020 | 0.00061 | 1.00 | |
| PCB156 | ND | 0.0020 | 0.00051 | 1.00 | |
| PCB157 | ND | 0.0020 | 0.00075 | 1.00 | |
| PCB167 | ND | 0.0020 | 0.00087 | 1.00 | |
| PCB168 | ND | 0.0020 | 0.00033 | 1.00 | |
| PCB169 | ND | 0.0020 | 0.00056 | 1.00 | |
| PCB170 | ND | 0.0020 | 0.00056 | 1.00 | |
| PCB177 | ND | 0.0020 | 0.00057 | 1.00 | |
| PCB180 | ND | 0.0020 | 0.00072 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 11/03/14
 Work Order: 14-11-0050
 Preparation: EPA 3510C
 Method: EPA 8270C SIM PCB Congeners
 Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

Page 2 of 16

| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|-----------------|-----------------------|-------------------|-----------|-------------------|
| PCB183 | ND | 0.0020 | 0.00053 | 1.00 | |
| PCB187 | ND | 0.0020 | 0.00056 | 1.00 | |
| PCB189 | ND | 0.0020 | 0.00040 | 1.00 | |
| PCB194 | ND | 0.0020 | 0.00042 | 1.00 | |
| PCB195 | ND | 0.0020 | 0.00035 | 1.00 | |
| PCB201 | ND | 0.0020 | 0.00072 | 1.00 | |
| PCB206 | ND | 0.0020 | 0.00026 | 1.00 | |
| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> | | |
| 2-Fluorobiphenyl | 93 | 50-150 | | | |
| p-Terphenyl-d14 | 102 | 50-150 | | | |

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 11/03/14
Work Order: 14-11-0050
Preparation: EPA 3510C
Method: EPA 8270C SIM PCB Congeners
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| LE-RW-21-G-S-20141102 | 14-11-0050-4-E | 11/02/14 10:47 | Sea Water | GC/MS HHH | 11/08/14 | 11/10/14 01:08 | 141108L05 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------|--------|--------|---------|------|------------|
| PCB018 | ND | 0.0020 | 0.00042 | 1.00 | |
| PCB028 | ND | 0.0020 | 0.00066 | 1.00 | |
| PCB037 | ND | 0.0020 | 0.00048 | 1.00 | |
| PCB044 | ND | 0.0020 | 0.00078 | 1.00 | |
| PCB049 | ND | 0.0020 | 0.00078 | 1.00 | |
| PCB052 | ND | 0.0020 | 0.00051 | 1.00 | |
| PCB066 | ND | 0.0020 | 0.00057 | 1.00 | |
| PCB070 | ND | 0.0020 | 0.00038 | 1.00 | |
| PCB074 | ND | 0.0020 | 0.00043 | 1.00 | |
| PCB077 | ND | 0.0020 | 0.00065 | 1.00 | |
| PCB081 | ND | 0.0020 | 0.00048 | 1.00 | |
| PCB087 | ND | 0.0020 | 0.00050 | 1.00 | |
| PCB099 | ND | 0.0020 | 0.00060 | 1.00 | |
| PCB101 | ND | 0.0020 | 0.00058 | 1.00 | |
| PCB105 | ND | 0.0020 | 0.00038 | 1.00 | |
| PCB110 | ND | 0.0020 | 0.00050 | 1.00 | |
| PCB114 | ND | 0.0020 | 0.00044 | 1.00 | |
| PCB118 | ND | 0.0020 | 0.00049 | 1.00 | |
| PCB119 | ND | 0.0020 | 0.00043 | 1.00 | |
| PCB123 | ND | 0.0020 | 0.00077 | 1.00 | |
| PCB126 | ND | 0.0020 | 0.00055 | 1.00 | |
| PCB128 | ND | 0.0020 | 0.00070 | 1.00 | |
| PCB132/153 | ND | 0.0040 | 0.0012 | 1.00 | |
| PCB138/158 | ND | 0.0040 | 0.0011 | 1.00 | |
| PCB149 | ND | 0.0020 | 0.00050 | 1.00 | |
| PCB151 | ND | 0.0020 | 0.00061 | 1.00 | |
| PCB156 | ND | 0.0020 | 0.00051 | 1.00 | |
| PCB157 | ND | 0.0020 | 0.00075 | 1.00 | |
| PCB167 | ND | 0.0020 | 0.00087 | 1.00 | |
| PCB168 | ND | 0.0020 | 0.00033 | 1.00 | |
| PCB169 | ND | 0.0020 | 0.00056 | 1.00 | |
| PCB170 | ND | 0.0020 | 0.00056 | 1.00 | |
| PCB177 | ND | 0.0020 | 0.00057 | 1.00 | |
| PCB180 | ND | 0.0020 | 0.00072 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 11/03/14
 Work Order: 14-11-0050
 Preparation: EPA 3510C
 Method: EPA 8270C SIM PCB Congeners
 Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|-----------------|-----------------------|-------------------|-----------|-------------------|
| PCB183 | ND | 0.0020 | 0.00053 | 1.00 | |
| PCB187 | ND | 0.0020 | 0.00056 | 1.00 | |
| PCB189 | ND | 0.0020 | 0.00040 | 1.00 | |
| PCB194 | ND | 0.0020 | 0.00042 | 1.00 | |
| PCB195 | ND | 0.0020 | 0.00035 | 1.00 | |
| PCB201 | ND | 0.0020 | 0.00072 | 1.00 | |
| PCB206 | ND | 0.0020 | 0.00026 | 1.00 | |
| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> | | |
| 2-Fluorobiphenyl | 90 | 50-150 | | | |
| p-Terphenyl-d14 | 104 | 50-150 | | | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 11/03/14
Work Order: 14-11-0050
Preparation: EPA 3510C
Method: EPA 8270C SIM PCB Congeners
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-------------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| LE-RW-1021-G-S-20141102 | 14-11-0050-7-E | 11/02/14 10:47 | Sea Water | GC/MS HHH | 11/08/14 | 11/10/14 01:35 | 141108L05 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------|--------|--------|---------|------|------------|
| PCB018 | ND | 0.0020 | 0.00042 | 1.00 | |
| PCB028 | ND | 0.0020 | 0.00066 | 1.00 | |
| PCB037 | ND | 0.0020 | 0.00048 | 1.00 | |
| PCB044 | ND | 0.0020 | 0.00078 | 1.00 | |
| PCB049 | ND | 0.0020 | 0.00078 | 1.00 | |
| PCB052 | ND | 0.0020 | 0.00051 | 1.00 | |
| PCB066 | ND | 0.0020 | 0.00057 | 1.00 | |
| PCB070 | ND | 0.0020 | 0.00038 | 1.00 | |
| PCB074 | ND | 0.0020 | 0.00043 | 1.00 | |
| PCB077 | ND | 0.0020 | 0.00065 | 1.00 | |
| PCB081 | ND | 0.0020 | 0.00048 | 1.00 | |
| PCB087 | ND | 0.0020 | 0.00050 | 1.00 | |
| PCB099 | ND | 0.0020 | 0.00060 | 1.00 | |
| PCB101 | ND | 0.0020 | 0.00058 | 1.00 | |
| PCB105 | ND | 0.0020 | 0.00038 | 1.00 | |
| PCB110 | ND | 0.0020 | 0.00050 | 1.00 | |
| PCB114 | ND | 0.0020 | 0.00044 | 1.00 | |
| PCB118 | ND | 0.0020 | 0.00049 | 1.00 | |
| PCB119 | ND | 0.0020 | 0.00043 | 1.00 | |
| PCB123 | ND | 0.0020 | 0.00077 | 1.00 | |
| PCB126 | ND | 0.0020 | 0.00055 | 1.00 | |
| PCB128 | ND | 0.0020 | 0.00070 | 1.00 | |
| PCB132/153 | ND | 0.0040 | 0.0012 | 1.00 | |
| PCB138/158 | ND | 0.0040 | 0.0011 | 1.00 | |
| PCB149 | ND | 0.0020 | 0.00050 | 1.00 | |
| PCB151 | ND | 0.0020 | 0.00061 | 1.00 | |
| PCB156 | ND | 0.0020 | 0.00051 | 1.00 | |
| PCB157 | ND | 0.0020 | 0.00075 | 1.00 | |
| PCB167 | ND | 0.0020 | 0.00087 | 1.00 | |
| PCB168 | ND | 0.0020 | 0.00033 | 1.00 | |
| PCB169 | ND | 0.0020 | 0.00056 | 1.00 | |
| PCB170 | ND | 0.0020 | 0.00056 | 1.00 | |
| PCB177 | ND | 0.0020 | 0.00057 | 1.00 | |
| PCB180 | ND | 0.0020 | 0.00072 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 11/03/14
 Work Order: 14-11-0050
 Preparation: EPA 3510C
 Method: EPA 8270C SIM PCB Congeners
 Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|-----------------|-----------------------|-------------------|-----------|-------------------|
| PCB183 | ND | 0.0020 | 0.00053 | 1.00 | |
| PCB187 | ND | 0.0020 | 0.00056 | 1.00 | |
| PCB189 | ND | 0.0020 | 0.00040 | 1.00 | |
| PCB194 | ND | 0.0020 | 0.00042 | 1.00 | |
| PCB195 | ND | 0.0020 | 0.00035 | 1.00 | |
| PCB201 | ND | 0.0020 | 0.00072 | 1.00 | |
| PCB206 | ND | 0.0020 | 0.00026 | 1.00 | |
| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> | | |
| 2-Fluorobiphenyl | 85 | 50-150 | | | |
| p-Terphenyl-d14 | 98 | 50-150 | | | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 11/03/14
Work Order: 14-11-0050
Preparation: EPA 3510C
Method: EPA 8270C SIM PCB Congeners
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| SP-RW-18-G-S-20141102 | 14-11-0050-8-E | 11/02/14 11:34 | Sea Water | GC/MS HHH | 11/08/14 | 11/10/14 02:01 | 141108L05 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------|--------|--------|---------|------|------------|
| PCB018 | ND | 0.0020 | 0.00042 | 1.00 | |
| PCB028 | ND | 0.0020 | 0.00066 | 1.00 | |
| PCB037 | ND | 0.0020 | 0.00048 | 1.00 | |
| PCB044 | ND | 0.0020 | 0.00078 | 1.00 | |
| PCB049 | ND | 0.0020 | 0.00078 | 1.00 | |
| PCB052 | ND | 0.0020 | 0.00051 | 1.00 | |
| PCB066 | ND | 0.0020 | 0.00057 | 1.00 | |
| PCB070 | ND | 0.0020 | 0.00038 | 1.00 | |
| PCB074 | ND | 0.0020 | 0.00043 | 1.00 | |
| PCB077 | ND | 0.0020 | 0.00065 | 1.00 | |
| PCB081 | ND | 0.0020 | 0.00048 | 1.00 | |
| PCB087 | ND | 0.0020 | 0.00050 | 1.00 | |
| PCB099 | ND | 0.0020 | 0.00060 | 1.00 | |
| PCB101 | ND | 0.0020 | 0.00058 | 1.00 | |
| PCB105 | ND | 0.0020 | 0.00038 | 1.00 | |
| PCB110 | ND | 0.0020 | 0.00050 | 1.00 | |
| PCB114 | ND | 0.0020 | 0.00044 | 1.00 | |
| PCB118 | ND | 0.0020 | 0.00049 | 1.00 | |
| PCB119 | ND | 0.0020 | 0.00043 | 1.00 | |
| PCB123 | ND | 0.0020 | 0.00077 | 1.00 | |
| PCB126 | ND | 0.0020 | 0.00055 | 1.00 | |
| PCB128 | ND | 0.0020 | 0.00070 | 1.00 | |
| PCB132/153 | ND | 0.0040 | 0.0012 | 1.00 | |
| PCB138/158 | ND | 0.0040 | 0.0011 | 1.00 | |
| PCB149 | ND | 0.0020 | 0.00050 | 1.00 | |
| PCB151 | ND | 0.0020 | 0.00061 | 1.00 | |
| PCB156 | ND | 0.0020 | 0.00051 | 1.00 | |
| PCB157 | ND | 0.0020 | 0.00075 | 1.00 | |
| PCB167 | ND | 0.0020 | 0.00087 | 1.00 | |
| PCB168 | ND | 0.0020 | 0.00033 | 1.00 | |
| PCB169 | ND | 0.0020 | 0.00056 | 1.00 | |
| PCB170 | ND | 0.0020 | 0.00056 | 1.00 | |
| PCB177 | ND | 0.0020 | 0.00057 | 1.00 | |
| PCB180 | ND | 0.0020 | 0.00072 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 11/03/14
 Work Order: 14-11-0050
 Preparation: EPA 3510C
 Method: EPA 8270C SIM PCB Congeners
 Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|-----------------|-----------------------|-------------------|-----------|-------------------|
| PCB183 | ND | 0.0020 | 0.00053 | 1.00 | |
| PCB187 | ND | 0.0020 | 0.00056 | 1.00 | |
| PCB189 | ND | 0.0020 | 0.00040 | 1.00 | |
| PCB194 | ND | 0.0020 | 0.00042 | 1.00 | |
| PCB195 | ND | 0.0020 | 0.00035 | 1.00 | |
| PCB201 | ND | 0.0020 | 0.00072 | 1.00 | |
| PCB206 | ND | 0.0020 | 0.00026 | 1.00 | |
| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> | | |
| 2-Fluorobiphenyl | 88 | 50-150 | | | |
| p-Terphenyl-d14 | 88 | 50-150 | | | |



Calscience

Analytical Report

| | | |
|------------------------------|----------------|-----------------------------|
| ANCHOR QEA, LLC | Date Received: | 11/03/14 |
| 27201 Puerta Real, Suite 350 | Work Order: | 14-11-0050 |
| Mission Viejo, CA 92691-8306 | Preparation: | EPA 3510C |
| | Method: | EPA 8270C SIM PCB Congeners |
| | Units: | ug/L |

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| SP-RW-20-G-S-20141102 | 14-11-0050-11-E | 11/02/14 13:00 | Sea Water | GC/MS HHH | 11/08/14 | 11/10/14 02:28 | 141108L05 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------|--------|--------|---------|------|------------|
| PCB018 | ND | 0.0020 | 0.00042 | 1.00 | |
| PCB028 | ND | 0.0020 | 0.00066 | 1.00 | |
| PCB037 | ND | 0.0020 | 0.00048 | 1.00 | |
| PCB044 | ND | 0.0020 | 0.00078 | 1.00 | |
| PCB049 | ND | 0.0020 | 0.00078 | 1.00 | |
| PCB052 | ND | 0.0020 | 0.00051 | 1.00 | |
| PCB066 | ND | 0.0020 | 0.00057 | 1.00 | |
| PCB070 | ND | 0.0020 | 0.00038 | 1.00 | |
| PCB074 | ND | 0.0020 | 0.00043 | 1.00 | |
| PCB077 | ND | 0.0020 | 0.00065 | 1.00 | |
| PCB081 | ND | 0.0020 | 0.00048 | 1.00 | |
| PCB087 | ND | 0.0020 | 0.00050 | 1.00 | |
| PCB099 | ND | 0.0020 | 0.00060 | 1.00 | |
| PCB101 | ND | 0.0020 | 0.00058 | 1.00 | |
| PCB105 | ND | 0.0020 | 0.00038 | 1.00 | |
| PCB110 | ND | 0.0020 | 0.00050 | 1.00 | |
| PCB114 | ND | 0.0020 | 0.00044 | 1.00 | |
| PCB118 | ND | 0.0020 | 0.00049 | 1.00 | |
| PCB119 | ND | 0.0020 | 0.00043 | 1.00 | |
| PCB123 | ND | 0.0020 | 0.00077 | 1.00 | |
| PCB126 | ND | 0.0020 | 0.00055 | 1.00 | |
| PCB128 | ND | 0.0020 | 0.00070 | 1.00 | |
| PCB132/153 | ND | 0.0040 | 0.0012 | 1.00 | |
| PCB138/158 | ND | 0.0040 | 0.0011 | 1.00 | |
| PCB149 | ND | 0.0020 | 0.00050 | 1.00 | |
| PCB151 | ND | 0.0020 | 0.00061 | 1.00 | |
| PCB156 | ND | 0.0020 | 0.00051 | 1.00 | |
| PCB157 | ND | 0.0020 | 0.00075 | 1.00 | |
| PCB167 | ND | 0.0020 | 0.00087 | 1.00 | |
| PCB168 | ND | 0.0020 | 0.00033 | 1.00 | |
| PCB169 | ND | 0.0020 | 0.00056 | 1.00 | |
| PCB170 | ND | 0.0020 | 0.00056 | 1.00 | |
| PCB177 | ND | 0.0020 | 0.00057 | 1.00 | |
| PCB180 | ND | 0.0020 | 0.00072 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 11/03/14
 Work Order: 14-11-0050
 Preparation: EPA 3510C
 Method: EPA 8270C SIM PCB Congeners
 Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|-----------------|-----------------------|-------------------|-----------|-------------------|
| PCB183 | ND | 0.0020 | 0.00053 | 1.00 | |
| PCB187 | ND | 0.0020 | 0.00056 | 1.00 | |
| PCB189 | ND | 0.0020 | 0.00040 | 1.00 | |
| PCB194 | ND | 0.0020 | 0.00042 | 1.00 | |
| PCB195 | ND | 0.0020 | 0.00035 | 1.00 | |
| PCB201 | ND | 0.0020 | 0.00072 | 1.00 | |
| PCB206 | ND | 0.0020 | 0.00026 | 1.00 | |
| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> | | |
| 2-Fluorobiphenyl | 71 | 50-150 | | | |
| p-Terphenyl-d14 | 93 | 50-150 | | | |



Calscience

Analytical Report

| | | |
|------------------------------|----------------|-----------------------------|
| ANCHOR QEA, LLC | Date Received: | 11/03/14 |
| 27201 Puerta Real, Suite 350 | Work Order: | 14-11-0050 |
| Mission Viejo, CA 92691-8306 | Preparation: | EPA 3510C |
| | Method: | EPA 8270C SIM PCB Congeners |
| | Units: | ug/L |

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| SP-RW-19-G-S-20141102 | 14-11-0050-14-E | 11/02/14 13:30 | Sea Water | GC/MS HHH | 11/08/14 | 11/10/14 02:54 | 141108L05 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------|--------|--------|---------|------|------------|
| PCB018 | ND | 0.0020 | 0.00042 | 1.00 | |
| PCB028 | ND | 0.0020 | 0.00066 | 1.00 | |
| PCB037 | ND | 0.0020 | 0.00048 | 1.00 | |
| PCB044 | ND | 0.0020 | 0.00078 | 1.00 | |
| PCB049 | ND | 0.0020 | 0.00078 | 1.00 | |
| PCB052 | ND | 0.0020 | 0.00051 | 1.00 | |
| PCB066 | ND | 0.0020 | 0.00057 | 1.00 | |
| PCB070 | ND | 0.0020 | 0.00038 | 1.00 | |
| PCB074 | ND | 0.0020 | 0.00043 | 1.00 | |
| PCB077 | ND | 0.0020 | 0.00065 | 1.00 | |
| PCB081 | ND | 0.0020 | 0.00048 | 1.00 | |
| PCB087 | ND | 0.0020 | 0.00050 | 1.00 | |
| PCB099 | ND | 0.0020 | 0.00060 | 1.00 | |
| PCB101 | ND | 0.0020 | 0.00058 | 1.00 | |
| PCB105 | ND | 0.0020 | 0.00038 | 1.00 | |
| PCB110 | ND | 0.0020 | 0.00050 | 1.00 | |
| PCB114 | ND | 0.0020 | 0.00044 | 1.00 | |
| PCB118 | ND | 0.0020 | 0.00049 | 1.00 | |
| PCB119 | ND | 0.0020 | 0.00043 | 1.00 | |
| PCB123 | ND | 0.0020 | 0.00077 | 1.00 | |
| PCB126 | ND | 0.0020 | 0.00055 | 1.00 | |
| PCB128 | ND | 0.0020 | 0.00070 | 1.00 | |
| PCB132/153 | ND | 0.0040 | 0.0012 | 1.00 | |
| PCB138/158 | ND | 0.0040 | 0.0011 | 1.00 | |
| PCB149 | ND | 0.0020 | 0.00050 | 1.00 | |
| PCB151 | ND | 0.0020 | 0.00061 | 1.00 | |
| PCB156 | ND | 0.0020 | 0.00051 | 1.00 | |
| PCB157 | ND | 0.0020 | 0.00075 | 1.00 | |
| PCB167 | ND | 0.0020 | 0.00087 | 1.00 | |
| PCB168 | ND | 0.0020 | 0.00033 | 1.00 | |
| PCB169 | ND | 0.0020 | 0.00056 | 1.00 | |
| PCB170 | ND | 0.0020 | 0.00056 | 1.00 | |
| PCB177 | ND | 0.0020 | 0.00057 | 1.00 | |
| PCB180 | ND | 0.0020 | 0.00072 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 11/03/14
 Work Order: 14-11-0050
 Preparation: EPA 3510C
 Method: EPA 8270C SIM PCB Congeners
 Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|-----------------|-----------------------|-------------------|-----------|-------------------|
| PCB183 | ND | 0.0020 | 0.00053 | 1.00 | |
| PCB187 | ND | 0.0020 | 0.00056 | 1.00 | |
| PCB189 | ND | 0.0020 | 0.00040 | 1.00 | |
| PCB194 | ND | 0.0020 | 0.00042 | 1.00 | |
| PCB195 | ND | 0.0020 | 0.00035 | 1.00 | |
| PCB201 | ND | 0.0020 | 0.00072 | 1.00 | |
| PCB206 | ND | 0.0020 | 0.00026 | 1.00 | |
| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> | | |
| 2-Fluorobiphenyl | 84 | 50-150 | | | |
| p-Terphenyl-d14 | 100 | 50-150 | | | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 11/03/14
Work Order: 14-11-0050
Preparation: EPA 3510C
Method: EPA 8270C SIM PCB Congeners
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

Page 13 of 16

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| EB20141102 | 14-11-0050-17-E | 11/02/14 14:00 | Sea Water | GC/MS HHH | 11/08/14 | 11/10/14 03:21 | 141108L05 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------|--------|--------|---------|------|------------|
| PCB018 | ND | 0.0020 | 0.00042 | 1.00 | |
| PCB028 | ND | 0.0020 | 0.00066 | 1.00 | |
| PCB037 | ND | 0.0020 | 0.00048 | 1.00 | |
| PCB044 | ND | 0.0020 | 0.00078 | 1.00 | |
| PCB049 | ND | 0.0020 | 0.00078 | 1.00 | |
| PCB052 | ND | 0.0020 | 0.00051 | 1.00 | |
| PCB066 | ND | 0.0020 | 0.00057 | 1.00 | |
| PCB070 | ND | 0.0020 | 0.00038 | 1.00 | |
| PCB074 | ND | 0.0020 | 0.00043 | 1.00 | |
| PCB077 | ND | 0.0020 | 0.00065 | 1.00 | |
| PCB081 | ND | 0.0020 | 0.00048 | 1.00 | |
| PCB087 | ND | 0.0020 | 0.00050 | 1.00 | |
| PCB099 | ND | 0.0020 | 0.00060 | 1.00 | |
| PCB101 | ND | 0.0020 | 0.00058 | 1.00 | |
| PCB105 | ND | 0.0020 | 0.00038 | 1.00 | |
| PCB110 | ND | 0.0020 | 0.00050 | 1.00 | |
| PCB114 | ND | 0.0020 | 0.00044 | 1.00 | |
| PCB118 | ND | 0.0020 | 0.00049 | 1.00 | |
| PCB119 | ND | 0.0020 | 0.00043 | 1.00 | |
| PCB123 | ND | 0.0020 | 0.00077 | 1.00 | |
| PCB126 | ND | 0.0020 | 0.00055 | 1.00 | |
| PCB128 | ND | 0.0020 | 0.00070 | 1.00 | |
| PCB132/153 | ND | 0.0040 | 0.0012 | 1.00 | |
| PCB138/158 | ND | 0.0040 | 0.0011 | 1.00 | |
| PCB149 | ND | 0.0020 | 0.00050 | 1.00 | |
| PCB151 | ND | 0.0020 | 0.00061 | 1.00 | |
| PCB156 | ND | 0.0020 | 0.00051 | 1.00 | |
| PCB157 | ND | 0.0020 | 0.00075 | 1.00 | |
| PCB167 | ND | 0.0020 | 0.00087 | 1.00 | |
| PCB168 | ND | 0.0020 | 0.00033 | 1.00 | |
| PCB169 | ND | 0.0020 | 0.00056 | 1.00 | |
| PCB170 | ND | 0.0020 | 0.00056 | 1.00 | |
| PCB177 | ND | 0.0020 | 0.00057 | 1.00 | |
| PCB180 | ND | 0.0020 | 0.00072 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 11/03/14
 Work Order: 14-11-0050
 Preparation: EPA 3510C
 Method: EPA 8270C SIM PCB Congeners
 Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|-----------------|-----------------------|-------------------|-----------|-------------------|
| PCB183 | ND | 0.0020 | 0.00053 | 1.00 | |
| PCB187 | ND | 0.0020 | 0.00056 | 1.00 | |
| PCB189 | ND | 0.0020 | 0.00040 | 1.00 | |
| PCB194 | ND | 0.0020 | 0.00042 | 1.00 | |
| PCB195 | ND | 0.0020 | 0.00035 | 1.00 | |
| PCB201 | ND | 0.0020 | 0.00072 | 1.00 | |
| PCB206 | ND | 0.0020 | 0.00026 | 1.00 | |
| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> | | |
| 2-Fluorobiphenyl | 83 | 50-150 | | | |
| p-Terphenyl-d14 | 113 | 50-150 | | | |



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Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 11/03/14
Work Order: 14-11-0050
Preparation: EPA 3510C
Method: EPA 8270C SIM PCB Congeners
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|---------|------------|---------------|--------------------|-------------|
| Method Blank | 099-16-414-14 | N/A | Aqueous | GC/MS HHH | 11/08/14 | 11/09/14 14:54 | 141108L05 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------|--------|--------|---------|------|------------|
| PCB018 | ND | 0.0020 | 0.00042 | 1.00 | |
| PCB028 | ND | 0.0020 | 0.00066 | 1.00 | |
| PCB037 | ND | 0.0020 | 0.00048 | 1.00 | |
| PCB044 | ND | 0.0020 | 0.00078 | 1.00 | |
| PCB049 | ND | 0.0020 | 0.00078 | 1.00 | |
| PCB052 | ND | 0.0020 | 0.00051 | 1.00 | |
| PCB066 | ND | 0.0020 | 0.00057 | 1.00 | |
| PCB070 | ND | 0.0020 | 0.00038 | 1.00 | |
| PCB074 | ND | 0.0020 | 0.00043 | 1.00 | |
| PCB077 | ND | 0.0020 | 0.00065 | 1.00 | |
| PCB081 | ND | 0.0020 | 0.00048 | 1.00 | |
| PCB087 | ND | 0.0020 | 0.00050 | 1.00 | |
| PCB099 | ND | 0.0020 | 0.00060 | 1.00 | |
| PCB101 | ND | 0.0020 | 0.00058 | 1.00 | |
| PCB105 | ND | 0.0020 | 0.00038 | 1.00 | |
| PCB110 | ND | 0.0020 | 0.00050 | 1.00 | |
| PCB114 | ND | 0.0020 | 0.00044 | 1.00 | |
| PCB118 | ND | 0.0020 | 0.00049 | 1.00 | |
| PCB119 | ND | 0.0020 | 0.00043 | 1.00 | |
| PCB123 | ND | 0.0020 | 0.00077 | 1.00 | |
| PCB126 | ND | 0.0020 | 0.00055 | 1.00 | |
| PCB128 | ND | 0.0020 | 0.00070 | 1.00 | |
| PCB132/153 | ND | 0.0040 | 0.0012 | 1.00 | |
| PCB138/158 | ND | 0.0040 | 0.0011 | 1.00 | |
| PCB149 | ND | 0.0020 | 0.00050 | 1.00 | |
| PCB151 | ND | 0.0020 | 0.00061 | 1.00 | |
| PCB156 | ND | 0.0020 | 0.00051 | 1.00 | |
| PCB157 | ND | 0.0020 | 0.00075 | 1.00 | |
| PCB167 | ND | 0.0020 | 0.00087 | 1.00 | |
| PCB168 | ND | 0.0020 | 0.00033 | 1.00 | |
| PCB169 | ND | 0.0020 | 0.00056 | 1.00 | |
| PCB170 | ND | 0.0020 | 0.00056 | 1.00 | |
| PCB177 | ND | 0.0020 | 0.00057 | 1.00 | |
| PCB180 | ND | 0.0020 | 0.00072 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 11/03/14
 Work Order: 14-11-0050
 Preparation: EPA 3510C
 Method: EPA 8270C SIM PCB Congeners
 Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|-----------------|-----------------------|-------------------|-----------|-------------------|
| PCB183 | ND | 0.0020 | 0.00053 | 1.00 | |
| PCB187 | ND | 0.0020 | 0.00056 | 1.00 | |
| PCB189 | ND | 0.0020 | 0.00040 | 1.00 | |
| PCB194 | ND | 0.0020 | 0.00042 | 1.00 | |
| PCB195 | ND | 0.0020 | 0.00035 | 1.00 | |
| PCB201 | ND | 0.0020 | 0.00072 | 1.00 | |
| PCB206 | ND | 0.0020 | 0.00026 | 1.00 | |
| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> | | |
| 2-Fluorobiphenyl | 86 | 50-150 | | | |
| p-Terphenyl-d14 | 90 | 50-150 | | | |

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Quality Control - Spike/Spike Duplicate

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 11/03/14
Work Order: 14-11-0050
Preparation: EPA 1631E Total
Method: EPA 1631E

Project: GWMA - TMDL Compliance Monitoring

Page 1 of 3

| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | MS/MSD Batch Number |
|---------------------------|------------------------|-----------|------------|---------------|----------------|---------------------|
| LE-RW-1021-G-S-20141102 | Sample | Sea Water | Hg/AF 1 | 11/14/14 | 11/14/14 00:00 | 141114S01 |
| LE-RW-1021-G-S-20141102 | Matrix Spike | Sea Water | Hg/AF 1 | 11/14/14 | 11/14/14 00:00 | 141114S01 |
| LE-RW-1021-G-S-20141102 | Matrix Spike Duplicate | Sea Water | Hg/AF 1 | 11/14/14 | 11/14/14 00:00 | 141114S01 |

| Parameter | Sample Conc. | Spike Added | MS Conc. | MS %Rec. | MSD Conc. | MSD %Rec. | %Rec. CL | RPD | RPD CL | Qualifiers |
|-----------|--------------|-------------|----------|----------|-----------|-----------|----------|-----|--------|------------|
| Mercury | 0.002667 | 0.02000 | 0.02396 | 106 | 0.02475 | 110 | 71-125 | 3 | 0-24 | |

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RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - Spike/Spike Duplicate

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 11/03/14
 Work Order: 14-11-0050
 Preparation: EPA 1631E Total
 Method: EPA 1631E

Project: GWMA - TMDL Compliance Monitoring

Page 2 of 3

| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | MS/MSD Batch Number |
|---------------------------|------------------------|---------|------------|---------------|----------------|---------------------|
| 14-10-2536-1 | Sample | Aqueous | Hg/AF 1 | 11/14/14 | 11/14/14 00:00 | 141114S01A |
| 14-10-2536-1 | Matrix Spike | Aqueous | Hg/AF 1 | 11/14/14 | 11/14/14 00:00 | 141114S01A |
| 14-10-2536-1 | Matrix Spike Duplicate | Aqueous | Hg/AF 1 | 11/14/14 | 11/14/14 00:00 | 141114S01A |

| Parameter | Sample Conc. | Spike Added | MS Conc. | MS %Rec. | MSD Conc. | MSD %Rec. | %Rec. CL | RPD | RPD CL | Qualifiers |
|-----------|--------------|-------------|----------|----------|-----------|-----------|----------|-----|--------|------------|
| Mercury | 0.003188 | 0.02000 | 0.02498 | 109 | 0.02423 | 105 | 71-125 | 3 | 0-24 | |

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - Spike/Spike Duplicate

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 11/03/14
Work Order: 14-11-0050
Preparation: EPA 3005A Total
Method: EPA 1640

Project: GWMA - TMDL Compliance Monitoring

Page 3 of 3

| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | MS/MSD Batch Number | | | | |
|---------------------------|------------------------|-------------|------------|---------------|----------------|---------------------|----------|-----|--------|------------|
| LE-RW-22-G-S-20141102 | Sample | Sea Water | ICP/MS 05 | 11/10/14 | 11/11/14 17:48 | 141110S02 | | | | |
| LE-RW-22-G-S-20141102 | Matrix Spike | Sea Water | ICP/MS 05 | 11/10/14 | 11/11/14 15:31 | 141110S02 | | | | |
| LE-RW-22-G-S-20141102 | Matrix Spike Duplicate | Sea Water | ICP/MS 05 | 11/10/14 | 11/11/14 15:39 | 141110S02 | | | | |
| Parameter | Sample Conc. | Spike Added | MS Conc. | MS %Rec. | MSD Conc. | MSD %Rec. | %Rec. CL | RPD | RPD CL | Qualifiers |
| Cadmium | 0.06877 | 0.5000 | 0.5922 | 105 | 0.6005 | 106 | 50-150 | 1 | 0-20 | |
| Chromium | ND | 5.000 | 6.138 | 123 | 6.420 | 128 | 50-150 | 4 | 0-20 | |
| Copper | 3.442 | 0.5000 | 4.152 | 4X | 4.194 | 4X | 50-150 | 4X | 0-20 | Q |
| Lead | 1.909 | 0.5000 | 2.226 | 63 | 2.482 | 115 | 50-150 | 11 | 0-20 | |
| Zinc | 17.46 | 5.000 | 23.71 | 125 | 23.67 | 124 | 50-150 | 0 | 0-20 | |


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RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - Sample Duplicate

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 11/03/14
 Work Order: 14-11-0050
 Preparation: N/A
 Method: SM 2540 D

Project: GWMA - TMDL Compliance Monitoring

Page 1 of 1

| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | Duplicate Batch Number |
|---------------------------|------------------|---------|------------|----------------|----------------|------------------------|
| 14-11-0043-1 | Sample | Aqueous | N/A | 11/06/14 00:00 | 11/06/14 15:30 | E1106TSSD2 |
| 14-11-0043-1 | Sample Duplicate | Aqueous | N/A | 11/06/14 00:00 | 11/06/14 15:30 | E1106TSSD2 |

| Parameter | Sample Conc. | DUP Conc. | RPD | RPD CL | Qualifiers |
|-------------------------|--------------|-----------|-----|--------|------------|
| Solids, Total Suspended | 89.20 | 88.20 | 1 | 0-20 | |

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - LCS/LCSD

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 11/03/14
Work Order: 14-11-0050
Preparation: N/A
Method: SM 2540 D

Project: GWMA - TMDL Compliance Monitoring

Page 1 of 7

| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | LCS/LCSD Batch Number | | | |
|---------------------------|-------------|-----------|------------|---------------|----------------|-----------------------|-----|--------|------------|
| 099-09-010-6856 | LCS | Aqueous | N/A | 11/06/14 | 11/06/14 15:30 | E1106TSSL2 | | | |
| 099-09-010-6856 | LCSD | Aqueous | N/A | 11/06/14 | 11/06/14 15:30 | E1106TSSL2 | | | |
| Parameter | Spike Added | LCS Conc. | LCS %Rec. | LCSD Conc. | LCSD %Rec. | %Rec. CL | RPD | RPD CL | Qualifiers |
| Solids, Total Suspended | 100.0 | 93.00 | 93 | 102.0 | 102 | 80-120 | 9 | 0-20 | |

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - LCS/LCSD

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 11/03/14
Work Order: 14-11-0050
Preparation: EPA 1631E Total
Method: EPA 1631E

Project: GWMA - TMDL Compliance Monitoring

Page 2 of 7

| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | LCS/LCSD Batch Number | | | |
|---------------------------|-------------|-----------|------------|---------------|----------------|-----------------------|-----|--------|------------|
| 099-15-224-64 | LCS | Aqueous | Hg/AF 1 | 11/14/14 | 11/14/14 00:00 | 141114L01 | | | |
| 099-15-224-64 | LCSD | Aqueous | Hg/AF 1 | 11/14/14 | 11/14/14 00:00 | 141114L01 | | | |
| Parameter | Spike Added | LCS Conc. | LCS %Rec. | LCSD Conc. | LCSD %Rec. | %Rec. CL | RPD | RPD CL | Qualifiers |
| Mercury | 0.02000 | 0.01976 | 99 | 0.02008 | 100 | 71-125 | 2 | 0-20 | |

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - LCS/LCSD

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 11/03/14
Work Order: 14-11-0050
Preparation: Filtered
Method: EPA 1631E

Project: GWMA - TMDL Compliance Monitoring

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| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | LCS/LCSD Batch Number | | | |
|---------------------------|-------------|-----------|------------|---------------|----------------|-----------------------|-----|--------|------------|
| 099-15-226-50 | LCS | Aqueous | Hg/AF 1 | 11/14/14 | 11/14/14 00:00 | 141114L01F | | | |
| 099-15-226-50 | LCSD | Aqueous | Hg/AF 1 | 11/14/14 | 11/14/14 00:00 | 141114L01F | | | |
| Parameter | Spike Added | LCS Conc. | LCS %Rec. | LCSD Conc. | LCSD %Rec. | %Rec. CL | RPD | RPD CL | Qualifiers |
| Mercury | 0.02000 | 0.01976 | 99 | 0.02008 | 100 | 71-125 | 2 | 0-20 | |

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - LCS/LCSD

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 11/03/14
Work Order: 14-11-0050
Preparation: EPA 3005A Total
Method: EPA 1640

Project: GWMA - TMDL Compliance Monitoring

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| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | LCS/LCSD Batch Number | | | |
|---------------------------|-------------|-----------|------------|---------------|----------------|-----------------------|-----|--------|------------|
| 099-13-067-461 | LCS | Aqueous | ICP/MS 05 | 11/10/14 | 11/11/14 14:51 | 141110L02 | | | |
| 099-13-067-461 | LCSD | Aqueous | ICP/MS 05 | 11/10/14 | 11/11/14 14:59 | 141110L02 | | | |
| Parameter | Spike Added | LCS Conc. | LCS %Rec. | LCSD Conc. | LCSD %Rec. | %Rec. CL | RPD | RPD CL | Qualifiers |
| Cadmium | 0.5000 | 0.5282 | 106 | 0.5246 | 105 | 70-130 | 1 | 0-20 | |
| Chromium | 5.000 | 5.437 | 109 | 5.336 | 107 | 70-130 | 2 | 0-20 | |
| Copper | 0.5000 | 0.5423 | 108 | 0.5460 | 109 | 70-130 | 1 | 0-20 | |
| Lead | 0.5000 | 0.5250 | 105 | 0.5168 | 103 | 70-130 | 2 | 0-20 | |
| Zinc | 5.000 | 5.455 | 109 | 5.405 | 108 | 70-130 | 1 | 0-20 | |

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - LCS/LCSD

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 11/03/14
Work Order: 14-11-0050
Preparation: EPA 3005A Filt.
Method: EPA 1640

Project: GWMA - TMDL Compliance Monitoring

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| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | LCS/LCSD Batch Number | | | |
|---------------------------|-------------|-----------|------------|---------------|----------------|-----------------------|-----|--------|------------|
| 099-15-823-120 | LCS | Aqueous | ICP/MS 05 | 11/10/14 | 11/11/14 14:51 | 141110L02F | | | |
| 099-15-823-120 | LCSD | Aqueous | ICP/MS 05 | 11/10/14 | 11/11/14 14:59 | 141110L02F | | | |
| Parameter | Spike Added | LCS Conc. | LCS %Rec. | LCSD Conc. | LCSD %Rec. | %Rec. CL | RPD | RPD CL | Qualifiers |
| Cadmium | 0.5000 | 0.5282 | 106 | 0.5246 | 105 | 70-130 | 1 | 0-20 | |
| Chromium | 5.000 | 5.437 | 109 | 5.336 | 107 | 70-130 | 2 | 0-20 | |
| Copper | 0.5000 | 0.5423 | 108 | 0.5460 | 109 | 70-130 | 1 | 0-20 | |
| Lead | 0.5000 | 0.5250 | 105 | 0.5168 | 103 | 70-130 | 2 | 0-20 | |
| Zinc | 5.000 | 5.455 | 109 | 5.405 | 108 | 70-130 | 1 | 0-20 | |

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - LCS/LCSD

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 11/03/14
Work Order: 14-11-0050
Preparation: EPA 3510C
Method: EPA 8081A

Project: GWMA - TMDL Compliance Monitoring

Page 6 of 7

| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | LCS/LCSD Batch Number | | | |
|---------------------------|-------------|-----------|------------|---------------|----------------|-----------------------|-----|--------|------------|
| 099-16-036-11 | LCS | Aqueous | GC 44 | 11/07/14 | 11/07/14 15:39 | 141107L03 | | | |
| 099-16-036-11 | LCSD | Aqueous | GC 44 | 11/07/14 | 11/07/14 15:54 | 141107L03 | | | |
| Parameter | Spike Added | LCS Conc. | LCS %Rec. | LCSD Conc. | LCSD %Rec. | %Rec. CL | RPD | RPD CL | Qualifiers |
| 4,4'-DDD | 50.00 | 51.19 | 102 | 52.04 | 104 | 50-150 | 2 | 0-25 | |
| 4,4'-DDE | 50.00 | 52.80 | 106 | 55.78 | 112 | 50-150 | 5 | 0-25 | |
| 4,4'-DDT | 50.00 | 51.68 | 103 | 52.76 | 106 | 50-150 | 2 | 0-25 | |
| Alpha Chlordane | 50.00 | 52.07 | 104 | 53.13 | 106 | 50-150 | 2 | 0-25 | |
| Dieldrin | 50.00 | 52.92 | 106 | 53.84 | 108 | 50-150 | 2 | 0-25 | |
| Gamma Chlordane | 50.00 | 51.67 | 103 | 52.77 | 106 | 50-150 | 2 | 0-25 | |

RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - LCS/LCSD

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 11/03/14
Work Order: 14-11-0050
Preparation: EPA 3510C
Method: EPA 8270C SIM PCB Congeners

Project: GWMA - TMDL Compliance Monitoring

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| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | LCS/LCSD Batch Number | | | | |
|---------------------------|-------------|-----------|------------|---------------|----------------|-----------------------|--------|-----|--------|------------|
| 099-16-414-14 | LCS | Aqueous | GC/MS HHH | 11/08/14 | 11/09/14 12:41 | 141108L05 | | | | |
| 099-16-414-14 | LCSD | Aqueous | GC/MS HHH | 11/08/14 | 11/09/14 13:08 | 141108L05 | | | | |
| Parameter | Spike Added | LCS Conc. | LCS %Rec. | LCSD Conc. | LCSD %Rec. | %Rec. CL | ME CL | RPD | RPD CL | Qualifiers |
| PCB018 | 0.5000 | 0.4998 | 100 | 0.4956 | 99 | 50-150 | 33-167 | 1 | 0-25 | |
| PCB028 | 0.5000 | 0.5341 | 107 | 0.5283 | 106 | 50-150 | 33-167 | 1 | 0-25 | |
| PCB044 | 0.5000 | 0.5224 | 104 | 0.5214 | 104 | 50-150 | 33-167 | 0 | 0-25 | |
| PCB052 | 0.5000 | 0.4594 | 92 | 0.4568 | 91 | 50-150 | 33-167 | 1 | 0-25 | |
| PCB066 | 0.5000 | 0.5723 | 114 | 0.5718 | 114 | 50-150 | 33-167 | 0 | 0-25 | |
| PCB077 | 0.5000 | 0.5704 | 114 | 0.5699 | 114 | 50-150 | 33-167 | 0 | 0-25 | |
| PCB101 | 0.5000 | 0.4981 | 100 | 0.4958 | 99 | 50-150 | 33-167 | 0 | 0-25 | |
| PCB105 | 0.5000 | 0.5504 | 110 | 0.5487 | 110 | 50-150 | 33-167 | 0 | 0-25 | |
| PCB118 | 0.5000 | 0.5686 | 114 | 0.5622 | 112 | 50-150 | 33-167 | 1 | 0-25 | |
| PCB126 | 0.5000 | 0.5479 | 110 | 0.5461 | 109 | 50-150 | 33-167 | 0 | 0-25 | |
| PCB128 | 0.5000 | 0.4758 | 95 | 0.4781 | 96 | 50-150 | 33-167 | 0 | 0-25 | |
| PCB170 | 0.5000 | 0.4444 | 89 | 0.4359 | 87 | 50-150 | 33-167 | 2 | 0-25 | |
| PCB180 | 0.5000 | 0.4983 | 100 | 0.4911 | 98 | 50-150 | 33-167 | 1 | 0-25 | |
| PCB187 | 0.5000 | 0.4848 | 97 | 0.4903 | 98 | 50-150 | 33-167 | 1 | 0-25 | |
| PCB195 | 0.5000 | 0.5431 | 109 | 0.5272 | 105 | 50-150 | 33-167 | 3 | 0-25 | |
| PCB206 | 0.5000 | 0.4788 | 96 | 0.4674 | 93 | 50-150 | 33-167 | 2 | 0-25 | |

Total number of LCS compounds: 16

Total number of ME compounds: 0

Total number of ME compounds allowed: 1

LCS ME CL validation result: Pass

RPD: Relative Percent Difference. CL: Control Limits

Glossary of Terms and Qualifiers

Work Order: 14-11-0050

Page 1 of 1

| <u>Qualifiers</u> | <u>Definition</u> |
|-------------------|--|
| * | See applicable analysis comment. |
| < | Less than the indicated value. |
| > | Greater than the indicated value. |
| 1 | Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification. |
| 2 | Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification. |
| 3 | Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control. |
| 4 | The MS/MSD RPD was out of control due to suspected matrix interference. |
| 5 | The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference. |
| 6 | Surrogate recovery below the acceptance limit. |
| 7 | Surrogate recovery above the acceptance limit. |
| B | Analyte was present in the associated method blank. |
| BU | Sample analyzed after holding time expired. |
| BV | Sample received after holding time expired. |
| E | Concentration exceeds the calibration range. |
| ET | Sample was extracted past end of recommended max. holding time. |
| HD | The chromatographic pattern was inconsistent with the profile of the reference fuel standard. |
| HDH | The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected). |
| HDL | The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected). |
| J | Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated. |
| JA | Analyte positively identified but quantitation is an estimate. |
| ME | LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean). |
| ND | Parameter not detected at the indicated reporting limit. |
| Q | Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater. |
| SG | The sample extract was subjected to Silica Gel treatment prior to analysis. |
| X | % Recovery and/or RPD out-of-range. |
| Z | Analyte presence was not confirmed by second column or GC/MS analysis. |

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of ≤ 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

Chain of Custody Record & Laboratory Analysis Request

Laboratory Number: _____
 Date: 1/2/14
 Project Name: GWMA-TMDL Compliance Monitoring
 Project Number: 141205-01.01
 Project Manager: Andy Martin
 Phone Number: (949) 334 9630
 Shipment Method: Courier

Parameters



14-11-0050

| Line | Field Sample ID | Collection Date/Time | Matrix | No. of Containers | Parameters | | | | | | | | Comments/Preservation | | |
|------|------------------------|----------------------|--------|-------------------|------------|----------------------------|-----------------------------|---------------------------|---------------|--|--|--|-----------------------|--|--|
| | | | | | TSS | Total and dissolved metals | Total and dissolved mercury | Organochlorine pesticides | PCB Congeners | | | | | | |
| 1 | LE-RW-22-G-S-2041102 | 11.2.14 / 08:35 | water | 8 | X | X | X | X | X | | | | | | |
| 2 | LE-RW-22-G-M-2041102 | 11.2.14 / 08:35 | | 1 | X | | | | | | | | | | |
| 3 | LE-RW-22-G-S-2041102 | 11.2.14 / 08:35 | | 1 | X | | | | | | | | | | |
| 4 | LE-RW-21-G-S-2041102 | 11.2.14 / 10:44 | | 8 | X | X | X | X | X | | | | | | |
| 5 | LE-RW-21-G-M-2041102 | 11.2.14 / 10:44 | | 1 | X | | | | | | | | | | |
| 6 | LE-RW-21-G-B-2041102 | 11.2.14 / 10:47 | | 1 | X | | | | | | | | | | |
| 7 | LE-RW-1021-G-S-2041102 | 11.2.14 / 10:47 | | 7 | X | X | X | X | X | | | | | | |
| 8 | SP-RW-18-G-S-2041102 | 11.2.14 / 11:34 | | 8 | X | X | X | X | X | | | | | | |
| 9 | SP-RW-18-G-M-2041102 | 11.2.14 / 11:34 | | 1 | X | | | | | | | | | | |
| 10 | SP-RW-18-G-B-2041102 | 11.2.14 / 11:34 | | 1 | X | | | | | | | | | | |
| 11 | SP-RW-20-G-S-2041102 | 11.2.14 / 13:00 | | 8 | X | X | X | X | X | | | | | | |
| 12 | SP-RW-20-G-M-2041102 | 11.2.14 / 13:00 | | 1 | X | | | | | | | | | | |
| 13 | SP-RW-20-G-B-2041102 | 11.2.14 / 13:00 | | 1 | X | | | | | | | | | | |
| 14 | SP-RW-17-G-S-2041102 | 11.2.14 / 13:30 | ✓ | 8 | X | X | X | X | X | | | | | | |
| 15 | SP-RW-17-G-M-2041102 | 11.2.14 / 13:30 | | 1 | X | | | | | | | | | | |

Notes:


Relinquished By: Rick Ware Company: SRM
 Signature/Printed Name: _____ Date/Time: 11/2/14 1647

Received By: _____ Company: ECI
 Signature/Printed Name: _____ Date/Time: 11/02/14 1642

Relinquished By: _____ Company: ECI
 Signature/Printed Name: _____ Date/Time: 11/03/14 1000

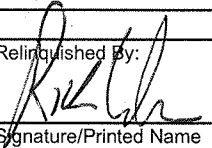
Received By: _____ Company: ECI
 Signature/Printed Name: _____ Date/Time: 11/3/14 1000

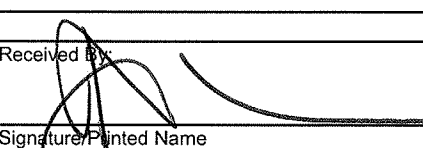
Chain of Custody Record & Laboratory Analysis Request

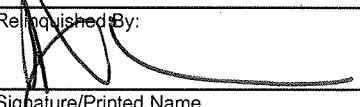
| | | | |
|---|-------------------|------------|--|
| Laboratory Number: _____ Date: _____ Project Name: GWMA-TMDL Compliance Monitoring Project Number: 141205-01.01 Project Manager: Andy Martin Phone Number: (949) 334 9630 Shipment Method: Courier | No. of Containers | Parameters |  0050 |
|---|-------------------|------------|--|

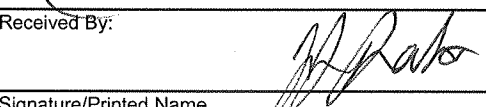
| Line | Field Sample ID | Collection Date/Time | Matrix | No. of Containers | TSS | Total and dissolved metals | Total and dissolved mercury | Organochlorine pesticides | PCB Congeners | Parameters | Comments/Preservation |
|------|----------------------|----------------------|--------|-------------------|-----|----------------------------|-----------------------------|---------------------------|---------------|------------|-----------------------|
| 16 | SP-RW-19-G-B-2041102 | 11.2.14 / 13:30 | Water | 2 | X | | | | | | |
| 17 | EB2041102 | 11.2.14 / 14:00 | Water | 6 | X | X | X | X | X | | |
| 3 | | | | | | | | | | | |
| 4 | | | | | | | | | | | |
| 5 | | | | | | | | | | | |
| 6 | | | | | | | | | | | |
| 7 | | | | | | | | | | | |
| 8 | | | | | | | | | | | |
| 9 | | | | | | | | | | | |
| 10 | | | | | | | | | | | |
| 11 | | | | | | | | | | | |
| 12 | | | | | | | | | | | |
| 13 | | | | | | | | | | | |
| 14 | | | | | | | | | | | |
| 15 | | | | | | | | | | | |

Notes:

| | |
|--|--------------------------------|
| Relinquished By:  | Company: <u>CRM</u> |
| Signature/Printed Name: <u>RICK WADE</u> | Date/Time: <u>11/2/14 1648</u> |

| | |
|---|---------------------------------|
| Received By:  | Company: <u>ECI</u> |
| Signature/Printed Name: _____ | Date/Time: <u>11/02/14 1642</u> |

| | |
|--|---------------------------------|
| Relinquished By:  | Company: <u>ECI</u> |
| Signature/Printed Name: _____ | Date/Time: <u>11/03/14 1000</u> |

| | |
|---|--------------------------------|
| Received By:  | Company: <u>ECF</u> |
| Signature/Printed Name: _____ | Date/Time: <u>11/3/14 1000</u> |

Calscience

WORK ORDER #: **14-11-0050**

SAMPLE RECEIPT FORM

Cooler 1 of 2

CLIENT: ANCHOR

DATE: 11/03/14

TEMPERATURE: Thermometer ID: SC2 (Criteria: 0.0 °C – 6.0 °C, not frozen except sediment/tissue)

Temperature 1.9 °C - 0.2 °C (CF) = 1.7 °C Blank Sample

Sample(s) outside temperature criteria (PM/APM contacted by: _____)

Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: Air Filter

Checked by: 671

CUSTODY SEALS INTACT:

Cooler _____ No (Not Intact) Not Present N/A Checked by: 671

Sample _____ No (Not Intact) Not Present Checked by: 862

SAMPLE CONDITION:

| | Yes | No | N/A |
|---|-------------------------------------|-------------------------------------|-------------------------------------|
| Chain-Of-Custody (COC) document(s) received with samples..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| COC document(s) received complete..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> Collection date/time, matrix, and/or # of containers logged in based on sample labels. <input type="checkbox"/> No analysis requested. <input type="checkbox"/> Not relinquished. <input type="checkbox"/> No date/time relinquished. | | | |
| Sampler's name indicated on COC..... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Sample container label(s) consistent with COC..... | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Sample container(s) intact and good condition..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Proper containers and sufficient volume for analyses requested..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Analyses received within holding time..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Aqueous samples received within 15-minute holding time | | | |
| <input type="checkbox"/> pH <input type="checkbox"/> Residual Chlorine <input type="checkbox"/> Dissolved Sulfides <input type="checkbox"/> Dissolved Oxygen..... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Proper preservation noted on COC or sample container..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> Unpreserved vials received for Volatiles analysis | | | |
| Volatile analysis container(s) free of headspace..... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Tedlar bag(s) free of condensation..... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

CONTAINER TYPE:

Solid: 4ozCGJ 8ozCGJ 16ozCGJ Sleeve (____) EnCores® TerraCores® _____

Aqueous: VOA VOA^h VOA_{na2} 125AGB 125AGB^h 125AGB^p 1AGB ³ 1AGB_{na2} 1AGBs

500AGB 500AGJ 500AGJs 250AGB 250CGB ² 250CGBs 1PB 1PB_{na} 500PB

250PB ² 250PB_n 125PB 125PB_{z^{nna}} 100PJ 100PJ_{na2} _____ _____ _____

Air: Tedlar® Canister **Other:** _____ **Trip Blank Lot#:** _____ **Labeled/Checked by:** 862

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope **Reviewed by:** 200

Preservative: h: HCL n: HNO₃ na₂: Na₂S₂O₃ na: NaOH p: H₃PO₄ s: H₂SO₄ u: Ultra-pure z^{nna}: ZnAc₂+NaOH f: Filtered **Scanned by:** 300

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SAMPLE RECEIPT FORM

Cooler 2 of 2

CLIENT: ANCHOR

DATE: 11/03/14

TEMPERATURE: Thermometer ID: SC2 (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Temperature 1.8 °C - 0.2°C (CF) = 1.6 °C Blank Sample

Sample(s) outside temperature criteria (PM/APM contacted by: _____)

Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: Air Filter

Checked by: 671

CUSTODY SEALS INTACT:

Cooler _____ No (Not Intact) Not Present N/A

Sample _____ No (Not Intact) Not Present

Checked by: 671
Checked by: 862

SAMPLE CONDITION:

| | Yes | No | N/A |
|---|-------------------------------------|-------------------------------------|-------------------------------------|
| Chain-Of-Custody (COC) document(s) received with samples..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| COC document(s) received complete..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> Collection date/time, matrix, and/or # of containers logged in based on sample labels. | | | |
| <input type="checkbox"/> No analysis requested. <input type="checkbox"/> Not relinquished. <input type="checkbox"/> No date/time relinquished. | | | |
| Sampler's name indicated on COC..... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Sample container label(s) consistent with COC..... | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Sample container(s) intact and good condition..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Proper containers and sufficient volume for analyses requested..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Analyses received within holding time..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Aqueous samples received within 15-minute holding time | | | |
| <input type="checkbox"/> pH <input type="checkbox"/> Residual Chlorine <input type="checkbox"/> Dissolved Sulfides <input type="checkbox"/> Dissolved Oxygen..... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Proper preservation noted on COC or sample container..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> Unpreserved vials received for Volatiles analysis | | | |
| Volatile analysis container(s) free of headspace..... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Tedlar bag(s) free of condensation..... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

CONTAINER TYPE:

Solid: 4ozCGJ 8ozCGJ 16ozCGJ Sleeve (____) EnCores® TerraCores® _____

Aqueous: VOA VOA_h VOA_{na2} 125AGB 125AGB_h 125AGB_p 1AGB 1AGB_{na2} 1AGB_s

500AGB 500AGJ 500AGJ_s 250AGB 250CGB 250CGB_s 1PB 1PB_{na} 500PB

250PB 250PB_n 125PB 125PB_z 100PJ 100PJ_{na2} _____ _____ _____

Air: Tedlar® Canister **Other:** _____ **Trip Blank Lot#:** _____ **Labeled/Checked by:** 862

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope **Reviewed by:** 862

Preservative: h: HCL n: HNO₃ na₂: Na₂S₂O₃ na: NaOH p: H₃PO₄ s: H₂SO₄ u: Ultra-pure z_{na}: ZnAc₂+NaOH f: Filtered **Scanned by:** 862

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Calscience

WORK ORDER #: 14-11-0050

SAMPLE ANOMALY FORM

SAMPLES - CONTAINERS & LABELS:

Comments:

- Sample(s) NOT RECEIVED but listed on COC
- Sample(s) received but NOT LISTED on COC
- Holding time expired – list sample ID(s) and test
- Insufficient quantities for analysis – list test
- Improper container(s) used – list test
- Improper preservative used – list test
- No preservative noted on COC or label – list test & notify lab
- Sample labels illegible – note test/container type
- Sample label(s) do not match COC – Note in comments
 - Sample ID
 - Date and/or Time Collected
 - Project Information
 - # of Container(s)
 - Analysis
- Sample container(s) compromised – Note in comments
 - Water present in sample container
 - Broken
- Sample container(s) not labeled
- Air sample container(s) compromised – Note in comments
 - Flat
 - Very low in volume
 - Leaking (Not transferred - duplicate bag submitted)
 - Leaking (transferred into Calscience Tedlar® Bag*)
 - Leaking (transferred into Client's Tedlar® Bag*)
- Other: _____

(-5)(-6) Not Received.

Collection time per label is:
(-7) 11:10

(-8)(-9)(-10) 11:40

(-11)(-12)(-13) 13:25

(-14)(-15)(-16) 14:15

(-17) 13:00

HEADSPACE – Containers with Bubble > 6mm or ¼ inch:

| Sample # | Container ID(s) | # of Vials Received | Sample # | Container ID(s) | # of Vials Received | Sample # | Container ID(s) | # of Cont. received | Analysis |
|----------|-----------------|---------------------|----------|-----------------|---------------------|----------|-----------------|---------------------|----------|
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

Comments: _____

*Transferred at Client's request.

Initial / Date: 802 11/13/14



Danielle Gonsman

From: Brittany Geisler [bgeisler@anchorqea.com]
Sent: Tuesday, November 04, 2014 2:36 PM
To: Danielle Gonsman
Subject: RE: GWMA - TMDL Compliance Monitoring - 14-11-0050 - Sample Receipt Confirmation & COC Document

Hi, Danielle! Those samples were never collected. Please cross them off the COC. Thank you very much!

Britt

From: Andy Martin
Sent: Tuesday, November 04, 2014 10:42 AM
To: Chris Osuch; Brittany Geisler
Subject: Fwd: GWMA - TMDL Compliance Monitoring - 14-11-0050 - Sample Receipt Confirmation & COC Document

I can't look at this until tonight. Thoughts?

Andrew Martin
Anchor QEA
760-443-2402

Begin forwarded message:

From: "Danielle Gonsman" <DanielleGonsman@eurofinsUS.com>
To: "Andy Martin" <amartin@anchorqea.com>, "Cindy Fields" <cfields@anchorqea.com>
Subject: **GWMA - TMDL Compliance Monitoring - 14-11-0050 - Sample Receipt Confirmation & COC Document**

Hi Andy-

It appears we are missing two TSS samples. Can you please confirm if we should have received them? See last page of the attached.

Thanks!

Danielle Gonsman
Project Manager

Eurofins Calscience, Inc.
7440 Lincoln Way
Garden Grove, CA 92841
USA
Phone: +1 714 895 5494

Email: DanielleGonsman@eurofinsUS.com<<mailto:DanielleGonsman@eurofinsUS.com>>
Website: www.calscience.com<<http://www.calscience.com/>>

The information transmitted is intended only for the person or entity to which it is addressed and may contain confidential and/or privileged material. Any review, retransmission, dissemination



Calscience



WORK ORDER NUMBER: 14-11-0041

The difference is service



AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: ANCHOR QEA, LLC

Client Project Name: GWMA - TMDL Compliance Monitoring

Attention: Andy Martin
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Danielle Gonsman

Approved for release on 11/28/2014 by:
Danielle Gonsman
Project Manager

ResultLink ▶

Email your PM ▶



Eurofins Calscience, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

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 Work Order Number: 14-11-0041

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CASE NARRATIVE

Calscience Work Order No.: 14-11-0041
Project ID: GWMA-TMDL Compliance Monitoring

Provided below is a narrative of our analytical effort, including any unique features or anomalies encountered as part of the analysis of the seawater samples.

Sample Condition on Receipt

Fifty-four seawater samples were received for this project on 3 November, 2014. The samples were transferred to the laboratory in an ice-chest with wet ice, following strict chain-of-custody (COC) procedures. The temperature of the samples upon receipt at the laboratory was 2.0-2.9°C. All samples were given laboratory identification numbers and logged into the Laboratory Information Management System (LIMS).

Tests Performed

Total Suspended Solids by SM 2540B (M)
Total and Dissolved Metals by EPA 1640/1631
Chlorinated Pesticides by EPA 8081A
PCB Congeners by EPA 8270C SIM

Data Summary

Samples were filtered in the laboratory for the dissolved metals analyses.

Holding times

All holding times were met.

Calibration

Frequency and control criteria for initial and continuing calibration verifications were met.

Reporting Limits

All Method Detection Limits were met. The results were evaluated to the MDL, and where applicable, "J" flags were reported.

Blanks

Concentrations of target analytes in the method blank were found to be below reporting limits for all testing.

Trace levels (below the RL, but above the MDL) of Copper and Zinc were detected in the EPA 1640 Method Blanks. The results have been flagged with B-qualifiers.

Laboratory Control Samples

A Laboratory Control Sample (LCS) analysis was performed at the required frequencies, and unless otherwise noted, all parameters were within the established control limits.

Matrix Spikes and QC Duplicates

Matrix spike analyses and/or QC Duplicates were performed for each applicable analysis as sample volume allowed. All parameters were within the established control limits unless otherwise noted (non-project spike/duplicate samples, if any, are not discussed).

Laboratory Duplicates

A Lab Dup was performed for sample OB-RW-17-G-S-20141102. The RPDs between the duplicates were within the control limits.

Surrogates

Surrogate recoveries for all applicable tests and samples were within the established control limits.

Acronyms

LCS - Laboratory Control Sample
MS/MSD- Matrix Spike/Matrix Spike Duplicate
PDS - Post Digestion Spike
RPD- Relative Percent Difference

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 11/03/14. They were assigned to Work Order 14-11-0041.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of ≤ 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

New York NELAP air certification does not certify for all reported methods and analytes, reference the accredited items here: http://www.calscience.com/PDF/New_York.pdf

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.



Calscience

Sample Summary

| | | |
|------------------------------|-----------------------|-----------------------------------|
| Client: ANCHOR QEA, LLC | Work Order: | 14-11-0041 |
| 27201 Puerta Real, Suite 350 | Project Name: | GWMA - TMDL Compliance Monitoring |
| Mission Viejo, CA 92691-8306 | PO Number: | |
| | Date/Time Received: | 11/03/14 11:00 |
| | Number of Containers: | 202 |

Attn: Andy Martin

| Sample Identification | Lab Number | Collection Date and Time | Number of Containers | Matrix |
|-------------------------|---------------|--------------------------|----------------------|-----------|
| IB-RW-12-G-S-20141102 | 14-11-0041-1 | 11/02/14 08:45 | 8 | Sea Water |
| IB-RW-12-G-M-20141102 | 14-11-0041-2 | 11/02/14 10:35 | 1 | Sea Water |
| IB-RW-1012-G-M-20141102 | 14-11-0041-3 | 11/02/14 10:35 | 1 | Sea Water |
| IB-RW-12-G-B-20141102 | 14-11-0041-4 | 11/02/14 10:40 | 1 | Sea Water |
| IB-RW-13-G-S-20141102 | 14-11-0041-5 | 11/02/14 11:05 | 9 | Sea Water |
| IB-RW-13-G-M-20141102 | 14-11-0041-6 | 11/02/14 11:10 | 1 | Sea Water |
| IB-RW-13-G-B-20141102 | 14-11-0041-7 | 11/02/14 11:15 | 1 | Sea Water |
| IB-RW-14-G-S-20141102 | 14-11-0041-8 | 11/02/14 11:50 | 8 | Sea Water |
| IB-RW-14-G-M-20141102 | 14-11-0041-9 | 11/02/14 11:55 | 1 | Sea Water |
| IB-RW-14-G-B-20141102 | 14-11-0041-10 | 11/02/14 12:00 | 1 | Sea Water |
| IB-RW-15-G-S-20141102 | 14-11-0041-11 | 11/02/14 12:30 | 8 | Sea Water |
| IB-RW-15-G-M-20141102 | 14-11-0041-12 | 11/02/14 12:35 | 1 | Sea Water |
| IR-RW-15-G-B-20141102 | 14-11-0041-13 | 11/02/14 12:40 | 1 | Sea Water |
| OB-RW-17-G-S-20141102 | 14-11-0041-14 | 11/02/14 13:25 | 16 | Sea Water |
| OB-RW-17-G-M-20141102 | 14-11-0041-15 | 11/02/14 13:35 | 1 | Sea Water |
| OB-RW-17-G-B-20141102 | 14-11-0041-16 | 11/02/14 13:40 | 1 | Sea Water |
| OB-RW-16-G-S-20141102 | 14-11-0041-17 | 11/02/14 14:10 | 8 | Sea Water |
| OB-RW-16-G-M-20141102 | 14-11-0041-18 | 11/02/14 14:15 | 1 | Sea Water |
| OB-RW-16-G-B-20141102 | 14-11-0041-19 | 11/02/14 14:20 | 1 | Sea Water |
| OA-RW-08-G-S-20141102 | 14-11-0041-20 | 11/02/14 14:50 | 8 | Sea Water |
| OA-RW-08-G-M-20141102 | 14-11-0041-21 | 11/02/14 14:55 | 1 | Sea Water |
| OA-RW-08-G-B-20141102 | 14-11-0041-22 | 11/02/14 15:00 | 1 | Sea Water |
| OA-RW-09-G-S-20141102 | 14-11-0041-23 | 11/02/14 15:20 | 8 | Sea Water |
| OA-RW-09-G-M-20141102 | 14-11-0041-24 | 11/02/14 15:25 | 1 | Sea Water |
| OA-RW-09-G-B-20141102 | 14-11-0041-25 | 11/02/14 15:30 | 1 | Sea Water |
| CS-RW-01-G-S-20141102 | 14-11-0041-26 | 11/02/14 08:52 | 8 | Sea Water |
| CS-RW-01-G-M-20141102 | 14-11-0041-27 | 11/02/14 09:08 | 1 | Sea Water |
| CS-RW-01-G-B-20141102 | 14-11-0041-28 | 11/02/14 09:12 | 1 | Sea Water |
| IA-RW-02-G-S-20141102 | 14-11-0041-29 | 11/02/14 09:56 | 8 | Sea Water |
| IA-RW-02-G-M-20141102 | 14-11-0041-30 | 11/02/14 09:57 | 1 | Sea Water |
| IA-RW-02-G-B-20141102 | 14-11-0041-31 | 11/02/14 09:58 | 1 | Sea Water |
| IA-RW-03-G-S-20141102 | 14-11-0041-32 | 11/02/14 10:38 | 8 | Sea Water |
| IA-RW-03-G-M-20141102 | 14-11-0041-33 | 11/02/14 10:40 | 1 | Sea Water |
| IA-RW-03-G-B-20141102 | 14-11-0041-34 | 11/02/14 10:41 | 1 | Sea Water |
| IA-RW-04-G-S-20141102 | 14-11-0041-35 | 11/02/14 11:13 | 8 | Sea Water |
| IA-RW-1004-G-S-20141102 | 14-11-0041-36 | 11/02/14 11:13 | 1 | Sea Water |
| IA-RW-04-G-M-20141102 | 14-11-0041-37 | 11/02/14 11:14 | 1 | Sea Water |
| IA-RW-04-G-B-20141102 | 14-11-0041-38 | 11/02/14 11:14 | 1 | Sea Water |
| IA-RW-06-G-S-20141102 | 14-11-0041-39 | 11/02/14 12:06 | 8 | Sea Water |
| IA-RW-06-G-M-20141102 | 14-11-0041-40 | 11/02/14 12:07 | 1 | Sea Water |
| IA-RW-06-G-B-20141102 | 14-11-0041-41 | 11/02/14 12:08 | 1 | Sea Water |
| IA-RW-05-G-S-20141102 | 14-11-0041-42 | 11/02/14 12:50 | 8 | Sea Water |

Return to Contents



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Sample Summary

| | |
|------------------------------|---|
| Client: ANCHOR QEA, LLC | Work Order: 14-11-0041 |
| 27201 Puerta Real, Suite 350 | Project Name: GWMA - TMDL Compliance Monitoring |
| Mission Viejo, CA 92691-8306 | PO Number: |
| | Date/Time Received: 11/03/14 11:00 |
| | Number of Containers: 202 |

Attn: Andy Martin

| Sample Identification | Lab Number | Collection Date and Time | Number of Containers | Matrix |
|-------------------------------|---------------|--------------------------|----------------------|-----------|
| IA-RW-05-G-M-20141102 | 14-11-0041-43 | 11/02/14 12:51 | 1 | Sea Water |
| IA-RW-05-G-B-20141102 | 14-11-0041-44 | 11/02/14 12:52 | 1 | Sea Water |
| FH-RW-07-G-S-20141102 | 14-11-0041-45 | 11/02/14 13:38 | 8 | Sea Water |
| FH-RW-07-G-M-20141102 | 14-11-0041-46 | 11/02/14 13:38 | 2 | Sea Water |
| FH-RW-07-G-B-20141102 | 14-11-0041-47 | 11/02/14 13:40 | 1 | Sea Water |
| CM-RW-10-G-S-20141102 | 14-11-0041-48 | 11/02/14 14:52 | 8 | Sea Water |
| CM-RW-10-G-M-20141102 | 14-11-0041-49 | 11/02/14 14:55 | 1 | Sea Water |
| CM-RW-10-G-B-20141102 | 14-11-0041-50 | 11/02/14 14:56 | 1 | Sea Water |
| FB-20141102 | 14-11-0041-51 | 11/02/14 15:15 | 4 | Sea Water |
| CB-RW-11-G-S-20141102 | 14-11-0041-52 | 11/02/14 15:33 | 8 | Sea Water |
| CB-RW-11-G-M-20141102 | 14-11-0041-53 | 11/02/14 15:34 | 1 | Sea Water |
| CB-RW-11-G-B-20141102 | 14-11-0041-54 | 11/02/14 15:34 | 1 | Sea Water |
| OB-RW-17-G-S-20141102-LAB DUP | 14-11-0041-55 | 11/02/14 13:25 | 16 | Sea Water |



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Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 11/03/14
Work Order: 14-11-0041
Preparation: N/A
Method: SM 2540 D
Units: mg/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IB-RW-12-G-S-20141102 | 14-11-0041-1-A | 11/02/14 08:45 | Sea Water | N/A | 11/08/14 | 11/08/14 15:20 | E1108TSSL2 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | ND | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IB-RW-12-G-M-20141102 | 14-11-0041-2-A | 11/02/14 10:35 | Sea Water | N/A | 11/08/14 | 11/08/14 15:20 | E1108TSSL2 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 1.1 | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-------------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IB-RW-1012-G-M-20141102 | 14-11-0041-3-A | 11/02/14 10:35 | Sea Water | N/A | 11/08/14 | 11/08/14 15:20 | E1108TSSL2 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 1.1 | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IB-RW-12-G-B-20141102 | 14-11-0041-4-A | 11/02/14 10:40 | Sea Water | N/A | 11/08/14 | 11/08/14 15:20 | E1108TSSL2 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 1.2 | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IB-RW-13-G-S-20141102 | 14-11-0041-5-H | 11/02/14 11:05 | Sea Water | N/A | 11/08/14 | 11/08/14 15:20 | E1108TSSL2 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 1.0 | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IB-RW-13-G-M-20141102 | 14-11-0041-6-A | 11/02/14 11:10 | Sea Water | N/A | 11/08/14 | 11/08/14 15:20 | E1108TSSL2 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 2.3 | 1.0 | 0.95 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 11/03/14
Work Order: 14-11-0041
Preparation: N/A
Method: SM 2540 D
Units: mg/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IB-RW-13-G-B-20141102 | 14-11-0041-7-A | 11/02/14 11:15 | Sea Water | N/A | 11/08/14 | 11/08/14 15:20 | E1108TSSL2 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 3.8 | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IB-RW-14-G-S-20141102 | 14-11-0041-8-H | 11/02/14 11:50 | Sea Water | N/A | 11/08/14 | 11/08/14 15:20 | E1108TSSL2 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | ND | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IB-RW-14-G-M-20141102 | 14-11-0041-9-A | 11/02/14 11:55 | Sea Water | N/A | 11/08/14 | 11/08/14 15:20 | E1108TSSL2 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 1.0 | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IB-RW-14-G-B-20141102 | 14-11-0041-10-A | 11/02/14 12:00 | Sea Water | N/A | 11/08/14 | 11/08/14 15:20 | E1108TSSL2 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 1.2 | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IB-RW-15-G-S-20141102 | 14-11-0041-11-H | 11/02/14 12:30 | Sea Water | N/A | 11/08/14 | 11/08/14 15:20 | E1108TSSL2 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 1.1 | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IB-RW-15-G-M-20141102 | 14-11-0041-12-A | 11/02/14 12:35 | Sea Water | N/A | 11/08/14 | 11/08/14 15:20 | E1108TSSL2 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 1.1 | 1.0 | 0.95 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 11/03/14
Work Order: 14-11-0041
Preparation: N/A
Method: SM 2540 D
Units: mg/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IR-RW-15-G-B-20141102 | 14-11-0041-13-A | 11/02/14 12:40 | Sea Water | N/A | 11/08/14 | 11/08/14 15:20 | E1108TSSL2 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 1.8 | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OB-RW-17-G-S-20141102 | 14-11-0041-14-H | 11/02/14 13:25 | Sea Water | N/A | 11/08/14 | 11/08/14 15:20 | E1108TSSL2 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 1.3 | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OB-RW-17-G-M-20141102 | 14-11-0041-15-A | 11/02/14 13:35 | Sea Water | N/A | 11/08/14 | 11/08/14 15:20 | E1108TSSL2 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | ND | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OB-RW-17-G-B-20141102 | 14-11-0041-16-A | 11/02/14 13:40 | Sea Water | N/A | 11/08/14 | 11/08/14 15:20 | E1108TSSL2 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | ND | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OB-RW-16-G-S-20141102 | 14-11-0041-17-H | 11/02/14 14:10 | Sea Water | N/A | 11/08/14 | 11/08/14 15:20 | E1108TSSL2 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | ND | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OB-RW-16-G-M-20141102 | 14-11-0041-18-A | 11/02/14 14:15 | Sea Water | N/A | 11/08/14 | 11/08/14 15:20 | E1108TSSL2 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 1.1 | 1.0 | 0.95 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 11/03/14
Work Order: 14-11-0041
Preparation: N/A
Method: SM 2540 D
Units: mg/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OB-RW-16-G-B-20141102 | 14-11-0041-19-A | 11/02/14 14:20 | Sea Water | N/A | 11/08/14 | 11/08/14 15:20 | E1108TSSL2 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | ND | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OA-RW-08-G-S-20141102 | 14-11-0041-20-H | 11/02/14 14:50 | Sea Water | N/A | 11/08/14 | 11/08/14 15:20 | E1108TSSL2 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | ND | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OA-RW-08-G-M-20141102 | 14-11-0041-21-A | 11/02/14 14:55 | Sea Water | N/A | 11/07/14 | 11/07/14 18:30 | E1107TSSL3 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 1.0 | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OA-RW-08-G-B-20141102 | 14-11-0041-22-A | 11/02/14 15:00 | Sea Water | N/A | 11/07/14 | 11/07/14 18:30 | E1107TSSL3 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 1.0 | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OA-RW-09-G-S-20141102 | 14-11-0041-23-H | 11/02/14 15:20 | Sea Water | N/A | 11/07/14 | 11/07/14 18:30 | E1107TSSL3 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 1.6 | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OA-RW-09-G-M-20141102 | 14-11-0041-24-A | 11/02/14 15:25 | Sea Water | N/A | 11/07/14 | 11/07/14 18:30 | E1107TSSL3 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 3.3 | 1.0 | 0.95 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 11/03/14
Work Order: 14-11-0041
Preparation: N/A
Method: SM 2540 D
Units: mg/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OA-RW-09-G-B-20141102 | 14-11-0041-25-A | 11/02/14 15:30 | Sea Water | N/A | 11/07/14 | 11/07/14 18:30 | E1107TSSL3 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 6.2 | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| CS-RW-01-G-S-20141102 | 14-11-0041-26-H | 11/02/14 08:52 | Sea Water | N/A | 11/07/14 | 11/07/14 18:30 | E1107TSSL3 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 1.7 | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| CS-RW-01-G-M-20141102 | 14-11-0041-27-A | 11/02/14 09:08 | Sea Water | N/A | 11/07/14 | 11/07/14 18:30 | E1107TSSL3 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 1.7 | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| CS-RW-01-G-B-20141102 | 14-11-0041-28-A | 11/02/14 09:12 | Sea Water | N/A | 11/07/14 | 11/07/14 18:30 | E1107TSSL3 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | ND | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-02-G-S-20141102 | 14-11-0041-29-H | 11/02/14 09:56 | Sea Water | N/A | 11/07/14 | 11/07/14 18:30 | E1107TSSL3 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 1.0 | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-02-G-M-20141102 | 14-11-0041-30-A | 11/02/14 09:57 | Sea Water | N/A | 11/07/14 | 11/07/14 18:30 | E1107TSSL3 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | ND | 1.0 | 0.95 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 11/03/14
Work Order: 14-11-0041
Preparation: N/A
Method: SM 2540 D
Units: mg/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-02-G-B-20141102 | 14-11-0041-31-A | 11/02/14 09:58 | Sea Water | N/A | 11/07/14 | 11/07/14 18:30 | E1107TSSL3 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 1.4 | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-03-G-S-20141102 | 14-11-0041-32-H | 11/02/14 10:38 | Sea Water | N/A | 11/07/14 | 11/07/14 18:30 | E1107TSSL3 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 1.6 | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-03-G-M-20141102 | 14-11-0041-33-A | 11/02/14 10:40 | Sea Water | N/A | 11/07/14 | 11/07/14 18:30 | E1107TSSL3 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 1.6 | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-03-G-B-20141102 | 14-11-0041-34-A | 11/02/14 10:41 | Sea Water | N/A | 11/07/14 | 11/07/14 18:30 | E1107TSSL3 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 1.3 | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-04-G-S-20141102 | 14-11-0041-35-H | 11/02/14 11:13 | Sea Water | N/A | 11/07/14 | 11/07/14 18:30 | E1107TSSL3 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 1.1 | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-------------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-1004-G-S-20141102 | 14-11-0041-36-A | 11/02/14 11:13 | Sea Water | N/A | 11/07/14 | 11/07/14 18:30 | E1107TSSL3 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | ND | 1.0 | 0.95 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 11/03/14
Work Order: 14-11-0041
Preparation: N/A
Method: SM 2540 D
Units: mg/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-04-G-M-20141102 | 14-11-0041-37-A | 11/02/14 11:14 | Sea Water | N/A | 11/07/14 | 11/07/14 18:30 | E1107TSSL3 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 1.2 | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-04-G-B-20141102 | 14-11-0041-38-A | 11/02/14 11:14 | Sea Water | N/A | 11/07/14 | 11/07/14 18:30 | E1107TSSL3 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 1.0 | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-06-G-S-20141102 | 14-11-0041-39-H | 11/02/14 12:06 | Sea Water | N/A | 11/07/14 | 11/07/14 18:30 | E1107TSSL3 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 1.0 | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-06-G-M-20141102 | 14-11-0041-40-A | 11/02/14 12:07 | Sea Water | N/A | 11/07/14 | 11/07/14 18:30 | E1107TSSL3 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 1.1 | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-06-G-B-20141102 | 14-11-0041-41-A | 11/02/14 12:08 | Sea Water | N/A | 11/07/14 | 11/07/14 19:40 | E1107TSSL4 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | ND | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-05-G-S-20141102 | 14-11-0041-42-H | 11/02/14 12:50 | Sea Water | N/A | 11/07/14 | 11/07/14 19:40 | E1107TSSL4 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 1.1 | 1.0 | 0.95 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 11/03/14
Work Order: 14-11-0041
Preparation: N/A
Method: SM 2540 D
Units: mg/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-05-G-M-20141102 | 14-11-0041-43-A | 11/02/14 12:51 | Sea Water | N/A | 11/07/14 | 11/07/14 19:40 | E1107TSSL4 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | ND | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-05-G-B-20141102 | 14-11-0041-44-A | 11/02/14 12:52 | Sea Water | N/A | 11/07/14 | 11/07/14 19:40 | E1107TSSL4 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 1.0 | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| FH-RW-07-G-S-20141102 | 14-11-0041-45-H | 11/02/14 13:38 | Sea Water | N/A | 11/07/14 | 11/07/14 19:40 | E1107TSSL4 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 2.7 | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| FH-RW-07-G-M-20141102 | 14-11-0041-46-A | 11/02/14 13:38 | Sea Water | N/A | 11/07/14 | 11/07/14 19:40 | E1107TSSL4 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 2.5 | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| FH-RW-07-G-B-20141102 | 14-11-0041-47-A | 11/02/14 13:40 | Sea Water | N/A | 11/07/14 | 11/07/14 19:40 | E1107TSSL4 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 4.0 | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| CM-RW-10-G-S-20141102 | 14-11-0041-48-H | 11/02/14 14:52 | Sea Water | N/A | 11/07/14 | 11/07/14 19:40 | E1107TSSL4 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 1.4 | 1.0 | 0.95 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 11/03/14
Work Order: 14-11-0041
Preparation: N/A
Method: SM 2540 D
Units: mg/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| CM-RW-10-G-M-20141102 | 14-11-0041-49-A | 11/02/14 14:55 | Sea Water | N/A | 11/07/14 | 11/07/14 19:40 | E1107TSSL4 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 2.0 | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| CM-RW-10-G-B-20141102 | 14-11-0041-50-A | 11/02/14 14:56 | Sea Water | N/A | 11/07/14 | 11/07/14 19:40 | E1107TSSL4 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 3.4 | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| CB-RW-11-G-S-20141102 | 14-11-0041-52-H | 11/02/14 15:33 | Sea Water | N/A | 11/07/14 | 11/07/14 19:40 | E1107TSSL4 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 1.1 | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| CB-RW-11-G-M-20141102 | 14-11-0041-53-A | 11/02/14 15:34 | Sea Water | N/A | 11/07/14 | 11/07/14 19:40 | E1107TSSL4 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 1.7 | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| CB-RW-11-G-B-20141102 | 14-11-0041-54-A | 11/02/14 15:34 | Sea Water | N/A | 11/07/14 | 11/07/14 19:40 | E1107TSSL4 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 2.7 | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-------------------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OB-RW-17-G-S-20141102-LAB DUP | 14-11-0041-55-A | 11/02/14 13:25 | Sea Water | N/A | 11/07/14 | 11/07/14 19:40 | E1107TSSL4 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | 1.0 | 1.0 | 0.95 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 11/03/14
Work Order: 14-11-0041
Preparation: N/A
Method: SM 2540 D
Units: mg/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|---------|------------|---------------|--------------------|-------------|
| Method Blank | 099-09-010-6873 | N/A | Aqueous | N/A | 11/07/14 | 11/07/14 18:30 | E1107TSSL3 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | ND | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|---------|------------|---------------|--------------------|-------------|
| Method Blank | 099-09-010-6860 | N/A | Aqueous | N/A | 11/07/14 | 11/07/14 19:40 | E1107TSSL4 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | ND | 1.0 | 0.95 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|---------|------------|---------------|--------------------|-------------|
| Method Blank | 099-09-010-6872 | N/A | Aqueous | N/A | 11/08/14 | 11/08/14 15:20 | E1108TSSL2 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-------------------------|--------|-----|------|------|------------|
| Solids, Total Suspended | ND | 1.0 | 0.95 | 1.00 | |

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 11/03/14
Work Order: 14-11-0041
Preparation: EPA 1631E Total
Method: EPA 1631E
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IB-RW-12-G-S-20141102 | 14-11-0041-1-B | 11/02/14 08:45 | Sea Water | Hg/AF 1 | 11/11/14 | 11/11/14 00:00 | 141111L02 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|---------|----------|----------|------|------------|
| Mercury | 0.00105 | 0.000500 | 0.000113 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IB-RW-13-G-S-20141102 | 14-11-0041-5-B | 11/02/14 11:05 | Sea Water | Hg/AF 1 | 11/11/14 | 11/11/14 00:00 | 141111L02 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|---------|----------|----------|------|------------|
| Mercury | 0.00134 | 0.000500 | 0.000113 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IB-RW-14-G-S-20141102 | 14-11-0041-8-B | 11/02/14 11:50 | Sea Water | Hg/AF 1 | 11/11/14 | 11/11/14 00:00 | 141111L02 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|----------|----------|----------|------|------------|
| Mercury | 0.000963 | 0.000500 | 0.000113 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IB-RW-15-G-S-20141102 | 14-11-0041-11-B | 11/02/14 12:30 | Sea Water | Hg/AF 1 | 11/11/14 | 11/11/14 00:00 | 141111L02 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|----------|----------|----------|------|------------|
| Mercury | 0.000699 | 0.000500 | 0.000113 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OB-RW-17-G-S-20141102 | 14-11-0041-14-B | 11/02/14 13:25 | Sea Water | Hg/AF 1 | 11/11/14 | 11/11/14 00:00 | 141111L02 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|----------|----------|----------|------|------------|
| Mercury | 0.000654 | 0.000500 | 0.000113 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OB-RW-16-G-S-20141102 | 14-11-0041-17-B | 11/02/14 14:10 | Sea Water | Hg/AF 1 | 11/11/14 | 11/11/14 00:00 | 141111L02 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|---------|----------|----------|------|------------|
| Mercury | 0.00120 | 0.000500 | 0.000113 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 11/03/14
Work Order: 14-11-0041
Preparation: EPA 1631E Total
Method: EPA 1631E
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OA-RW-08-G-S-20141102 | 14-11-0041-20-B | 11/02/14 18:50 | Sea Water | Hg/AF 1 | 11/11/14 | 11/11/14 00:00 | 141111L02 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|----------|----------|----------|------|------------|
| Mercury | 0.000770 | 0.000500 | 0.000113 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OA-RW-09-G-S-20141102 | 14-11-0041-23-B | 11/02/14 15:50 | Sea Water | Hg/AF 1 | 11/11/14 | 11/11/14 00:00 | 141111L02 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|---------|----------|----------|------|------------|
| Mercury | 0.00164 | 0.000500 | 0.000113 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| CS-RW-01-G-S-20141102 | 14-11-0041-26-B | 11/02/14 08:52 | Sea Water | Hg/AF 1 | 11/11/14 | 11/11/14 00:00 | 141111L02 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|---------|----------|----------|------|------------|
| Mercury | 0.00221 | 0.000500 | 0.000113 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-02-G-S-20141102 | 14-11-0041-29-B | 11/02/14 09:56 | Sea Water | Hg/AF 1 | 11/11/14 | 11/11/14 00:00 | 141111L02 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|---------|----------|----------|------|------------|
| Mercury | 0.00162 | 0.000500 | 0.000113 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-03-G-S-20141102 | 14-11-0041-32-B | 11/02/14 10:38 | Sea Water | Hg/AF 1 | 11/11/14 | 11/11/14 00:00 | 141111L02 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|---------|----------|----------|------|------------|
| Mercury | 0.00157 | 0.000500 | 0.000113 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-04-G-S-20141102 | 14-11-0041-35-B | 11/02/14 11:13 | Sea Water | Hg/AF 1 | 11/11/14 | 11/11/14 00:00 | 141111L02 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|---------|----------|----------|------|------------|
| Mercury | 0.00175 | 0.000500 | 0.000113 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 11/03/14
Work Order: 14-11-0041
Preparation: EPA 1631E Total
Method: EPA 1631E
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-06-G-S-20141102 | 14-11-0041-39-B | 11/02/14 12:06 | Sea Water | Hg/AF 1 | 11/11/14 | 11/11/14 00:00 | 141111L02 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|----------|----------|----------|------|------------|
| Mercury | 0.000969 | 0.000500 | 0.000113 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-05-G-S-20141102 | 14-11-0041-42-B | 11/02/14 12:50 | Sea Water | Hg/AF 1 | 11/11/14 | 11/11/14 00:00 | 141111L02 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|---------|----------|----------|------|------------|
| Mercury | 0.00133 | 0.000500 | 0.000113 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| FH-RW-07-G-S-20141102 | 14-11-0041-45-B | 11/02/14 13:38 | Sea Water | Hg/AF 1 | 11/11/14 | 11/11/14 00:00 | 141111L02 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|---------|----------|----------|------|------------|
| Mercury | 0.00738 | 0.000500 | 0.000113 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| CM-RW-10-G-S-20141102 | 14-11-0041-48-B | 11/02/14 14:52 | Sea Water | Hg/AF 1 | 11/11/14 | 11/11/14 00:00 | 141111L02 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|---------|----------|----------|------|------------|
| Mercury | 0.00139 | 0.000500 | 0.000113 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| FB-20141102 | 14-11-0041-51-B | 11/02/14 15:15 | Sea Water | Hg/AF 1 | 11/11/14 | 11/11/14 00:00 | 141111L02 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|----------|----------|------|------------|
| Mercury | ND | 0.000500 | 0.000113 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| CB-RW-11-G-S-20141102 | 14-11-0041-52-B | 11/02/14 15:33 | Sea Water | Hg/AF 1 | 11/11/14 | 11/11/14 00:00 | 141111L02 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|---------|----------|----------|------|------------|
| Mercury | 0.00186 | 0.000500 | 0.000113 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 11/03/14
Work Order: 14-11-0041
Preparation: EPA 1631E Total
Method: EPA 1631E
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-------------------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OB-RW-17-G-S-20141102-LAB DUP | 14-11-0041-55-B | 11/02/14 13:25 | Sea Water | Hg/AF 1 | 11/11/14 | 11/11/14 00:00 | 141111L02 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|----------|----------|----------|------|------------|
| Mercury | 0.000746 | 0.000500 | 0.000113 | 1.00 | |

| Method Blank | 099-15-224-63 | N/A | Aqueous | Hg/AF 1 | 11/11/14 | 11/11/14 00:00 | 141111L02 |
|--------------|---------------|-----|---------|---------|----------|-------------------|-----------|
|--------------|---------------|-----|---------|---------|----------|-------------------|-----------|

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|----------|----------|------|------------|
| Mercury | ND | 0.000500 | 0.000113 | 1.00 | |

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 11/03/14
Work Order: 14-11-0041
Preparation: Filtered
Method: EPA 1631E
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IB-RW-12-G-S-20141102 | 14-11-0041-1-A | 11/02/14 08:45 | Sea Water | Hg/AF 1 | 11/11/14 | 11/11/14 00:00 | 141111L01F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|----------|----------|----------|------|------------|
| Mercury | 0.000862 | 0.000500 | 0.000113 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IB-RW-13-G-S-20141102 | 14-11-0041-5-A | 11/02/14 11:05 | Sea Water | Hg/AF 1 | 11/11/14 | 11/11/14 00:00 | 141111L01F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|----------|----------|----------|------|------------|
| Mercury | 0.000692 | 0.000500 | 0.000113 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IB-RW-14-G-S-20141102 | 14-11-0041-8-A | 11/02/14 11:50 | Sea Water | Hg/AF 1 | 11/11/14 | 11/11/14 00:00 | 141111L01F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|----------|----------|----------|------|------------|
| Mercury | 0.000876 | 0.000500 | 0.000113 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IB-RW-15-G-S-20141102 | 14-11-0041-11-A | 11/02/14 12:30 | Sea Water | Hg/AF 1 | 11/11/14 | 11/11/14 00:00 | 141111L01F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|----------|----------|------|------------|
| Mercury | ND | 0.000500 | 0.000113 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OB-RW-17-G-S-20141102 | 14-11-0041-14-A | 11/02/14 13:25 | Sea Water | Hg/AF 1 | 11/11/14 | 11/11/14 00:00 | 141111L01F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|----------|----------|----------|------|------------|
| Mercury | 0.000659 | 0.000500 | 0.000113 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OB-RW-16-G-S-20141102 | 14-11-0041-17-A | 11/02/14 14:10 | Sea Water | Hg/AF 1 | 11/11/14 | 11/11/14 00:00 | 141111L01F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|----------|----------|----------|------|------------|
| Mercury | 0.000445 | 0.000500 | 0.000113 | 1.00 | J |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 11/03/14
Work Order: 14-11-0041
Preparation: Filtered
Method: EPA 1631E
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OA-RW-08-G-S-20141102 | 14-11-0041-20-A | 11/02/14 14:50 | Sea Water | Hg/AF 1 | 11/11/14 | 11/11/14 00:00 | 141111L01F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|----------|----------|----------|------|------------|
| Mercury | 0.000501 | 0.000500 | 0.000113 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OA-RW-09-G-S-20141102 | 14-11-0041-23-A | 11/02/14 15:20 | Sea Water | Hg/AF 1 | 11/11/14 | 11/11/14 00:00 | 141111L01F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|----------|----------|----------|------|------------|
| Mercury | 0.000510 | 0.000500 | 0.000113 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| CS-RW-01-G-S-20141102 | 14-11-0041-26-A | 11/02/14 08:52 | Sea Water | Hg/AF 1 | 11/11/14 | 11/11/14 00:00 | 141111L01F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|----------|----------|----------|------|------------|
| Mercury | 0.000637 | 0.000500 | 0.000113 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-02-G-S-20141102 | 14-11-0041-29-A | 11/02/14 09:56 | Sea Water | Hg/AF 1 | 11/11/14 | 11/11/14 00:00 | 141111L01F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|----------|----------|----------|------|------------|
| Mercury | 0.000637 | 0.000500 | 0.000113 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-03-G-S-20141102 | 14-11-0041-32-A | 11/02/14 10:38 | Sea Water | Hg/AF 1 | 11/11/14 | 11/11/14 00:00 | 141111L01F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|----------|----------|----------|------|------------|
| Mercury | 0.000807 | 0.000500 | 0.000113 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-04-G-S-20141102 | 14-11-0041-35-A | 11/02/14 11:13 | Sea Water | Hg/AF 1 | 11/11/14 | 11/11/14 00:00 | 141111L01F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|----------|----------|----------|------|------------|
| Mercury | 0.000476 | 0.000500 | 0.000113 | 1.00 | J |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 11/03/14
Work Order: 14-11-0041
Preparation: Filtered
Method: EPA 1631E
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-06-G-S-20141102 | 14-11-0041-39-A | 11/02/14 12:06 | Sea Water | Hg/AF 1 | 11/11/14 | 11/11/14 00:00 | 141111L01F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|----------|----------|----------|------|------------|
| Mercury | 0.000533 | 0.000500 | 0.000113 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-05-G-S-20141102 | 14-11-0041-42-A | 11/02/14 12:50 | Sea Water | Hg/AF 1 | 11/11/14 | 11/11/14 00:00 | 141111L01F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|----------|----------|----------|------|------------|
| Mercury | 0.000627 | 0.000500 | 0.000113 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| FH-RW-07-G-S-20141102 | 14-11-0041-45-A | 11/02/14 13:38 | Sea Water | Hg/AF 1 | 11/11/14 | 11/11/14 00:00 | 141111L01F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|----------|----------|----------|------|------------|
| Mercury | 0.000697 | 0.000500 | 0.000113 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| CM-RW-10-G-S-20141102 | 14-11-0041-48-A | 11/02/14 14:52 | Sea Water | Hg/AF 1 | 11/11/14 | 11/11/14 00:00 | 141111L01F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|----------|----------|----------|------|------------|
| Mercury | 0.000870 | 0.000500 | 0.000113 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| FB-20141102 | 14-11-0041-51-A | 11/02/14 15:15 | Sea Water | Hg/AF 1 | 11/11/14 | 11/11/14 00:00 | 141111L01F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|----------|----------|----------|------|------------|
| Mercury | 0.000380 | 0.000500 | 0.000113 | 1.00 | J |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| CB-RW-11-G-S-20141102 | 14-11-0041-52-A | 11/02/14 15:33 | Sea Water | Hg/AF 1 | 11/11/14 | 11/11/14 00:00 | 141111L01F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|---------|----------|----------|------|------------|
| Mercury | 0.00123 | 0.000500 | 0.000113 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 11/03/14
Work Order: 14-11-0041
Preparation: Filtered
Method: EPA 1631E
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-------------------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OB-RW-17-G-S-20141102-LAB DUP | 14-11-0041-55-A | 11/02/14 13:25 | Sea Water | Hg/AF 1 | 11/11/14 | 11/11/14 00:00 | 141111L01F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|----------|----------|----------|------|------------|
| Mercury | 0.000601 | 0.000500 | 0.000113 | 1.00 | |

| Method Blank | 099-15-226-49 | N/A | Aqueous | Hg/AF 1 | 11/11/14 | 11/11/14 00:00 | 141111L01F |
|--------------|---------------|-----|---------|---------|----------|-------------------|------------|
|--------------|---------------|-----|---------|---------|----------|-------------------|------------|

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|----------|----------|------|------------|
| Mercury | ND | 0.000500 | 0.000113 | 1.00 | |

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 11/03/14
Work Order: 14-11-0041
Preparation: EPA 3005A Total
Method: EPA 1640
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IB-RW-12-G-S-20141102 | 14-11-0041-1-D | 11/02/14 08:45 | Sea Water | ICP/MS 05 | 11/08/14 | 11/09/14 20:53 | 141108L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0551 | 0.0300 | 0.00567 | 1.00 | |
| Chromium | 0.171 | 0.500 | 0.164 | 1.00 | J |
| Copper | 2.04 | 0.0300 | 0.00898 | 1.00 | B |
| Lead | 0.202 | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 12.1 | 0.500 | 0.0736 | 1.00 | B |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IB-RW-13-G-S-20141102 | 14-11-0041-5-D | 11/02/14 11:05 | Sea Water | ICP/MS 05 | 11/08/14 | 11/09/14 21:33 | 141108L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0428 | 0.0300 | 0.00567 | 1.00 | |
| Chromium | ND | 0.500 | 0.164 | 1.00 | |
| Copper | 1.06 | 0.0300 | 0.00898 | 1.00 | B |
| Lead | 0.162 | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 5.45 | 0.500 | 0.0736 | 1.00 | B |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IB-RW-14-G-S-20141102 | 14-11-0041-8-D | 11/02/14 11:50 | Sea Water | ICP/MS 05 | 11/08/14 | 11/09/14 21:41 | 141108L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0462 | 0.0300 | 0.00567 | 1.00 | |
| Chromium | ND | 0.500 | 0.164 | 1.00 | |
| Copper | 1.26 | 0.0300 | 0.00898 | 1.00 | B |
| Lead | 0.106 | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 2.94 | 0.500 | 0.0736 | 1.00 | B |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 11/03/14
Work Order: 14-11-0041
Preparation: EPA 3005A Total
Method: EPA 1640
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IB-RW-15-G-S-20141102 | 14-11-0041-11-D | 11/02/14 12:30 | Sea Water | ICP/MS 05 | 11/08/14 | 11/09/14 21:49 | 141108L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0360 | 0.0300 | 0.00567 | 1.00 | |
| Chromium | ND | 0.500 | 0.164 | 1.00 | |
| Copper | 1.22 | 0.0300 | 0.00898 | 1.00 | B |
| Lead | 0.0867 | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 3.92 | 0.500 | 0.0736 | 1.00 | B |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OB-RW-17-G-S-20141102 | 14-11-0041-14-D | 11/02/14 13:25 | Sea Water | ICP/MS 05 | 11/08/14 | 11/09/14 20:45 | 141108L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0438 | 0.0300 | 0.00567 | 1.00 | |
| Chromium | ND | 0.500 | 0.164 | 1.00 | |
| Copper | 0.949 | 0.0300 | 0.00898 | 1.00 | B |
| Lead | 0.200 | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 3.75 | 0.500 | 0.0736 | 1.00 | B |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OB-RW-16-G-S-20141102 | 14-11-0041-17-D | 11/02/14 14:10 | Sea Water | ICP/MS 05 | 11/08/14 | 11/09/14 21:57 | 141108L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0399 | 0.0300 | 0.00567 | 1.00 | |
| Chromium | ND | 0.500 | 0.164 | 1.00 | |
| Copper | 0.767 | 0.0300 | 0.00898 | 1.00 | B |
| Lead | 0.116 | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 1.97 | 0.500 | 0.0736 | 1.00 | B |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 11/03/14
Work Order: 14-11-0041
Preparation: EPA 3005A Total
Method: EPA 1640
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OA-RW-08-G-S-20141102 | 14-11-0041-20-D | 11/02/14 14:50 | Sea Water | ICP/MS 05 | 11/08/14 | 11/09/14 22:05 | 141108L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0300 | 0.0300 | 0.00567 | 1.00 | |
| Chromium | ND | 0.500 | 0.164 | 1.00 | |
| Copper | 0.247 | 0.0300 | 0.00898 | 1.00 | B |
| Lead | 0.0450 | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 0.788 | 0.500 | 0.0736 | 1.00 | B |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OA-RW-09-G-S-20141102 | 14-11-0041-23-D | 11/02/14 15:20 | Sea Water | ICP/MS 05 | 11/08/14 | 11/09/14 22:13 | 141108L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0525 | 0.0300 | 0.00567 | 1.00 | |
| Chromium | ND | 0.500 | 0.164 | 1.00 | |
| Copper | 2.03 | 0.0300 | 0.00898 | 1.00 | B |
| Lead | 0.221 | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 5.45 | 0.500 | 0.0736 | 1.00 | B |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| CS-RW-01-G-S-20141102 | 14-11-0041-26-D | 11/02/14 08:52 | Sea Water | ICP/MS 05 | 11/08/14 | 11/09/14 22:21 | 141108L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0809 | 0.0300 | 0.00567 | 1.00 | |
| Chromium | ND | 0.500 | 0.164 | 1.00 | |
| Copper | 3.68 | 0.0300 | 0.00898 | 1.00 | B |
| Lead | 0.584 | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 26.5 | 0.500 | 0.0736 | 1.00 | B |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 11/03/14
Work Order: 14-11-0041
Preparation: EPA 3005A Total
Method: EPA 1640
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-02-G-S-20141102 | 14-11-0041-29-D | 11/02/14 09:56 | Sea Water | ICP/MS 05 | 11/08/14 | 11/09/14 22:29 | 141108L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0723 | 0.0300 | 0.00567 | 1.00 | |
| Chromium | ND | 0.500 | 0.164 | 1.00 | |
| Copper | 3.26 | 0.0300 | 0.00898 | 1.00 | B |
| Lead | 0.294 | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 19.1 | 0.500 | 0.0736 | 1.00 | B |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-03-G-S-20141102 | 14-11-0041-32-D | 11/02/14 10:38 | Sea Water | ICP/MS 05 | 11/08/14 | 11/09/14 22:37 | 141108L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0541 | 0.0300 | 0.00567 | 1.00 | |
| Chromium | ND | 0.500 | 0.164 | 1.00 | |
| Copper | 2.39 | 0.0300 | 0.00898 | 1.00 | B |
| Lead | 0.190 | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 7.48 | 0.500 | 0.0736 | 1.00 | B |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-04-G-S-20141102 | 14-11-0041-35-D | 11/02/14 11:13 | Sea Water | ICP/MS 05 | 11/08/14 | 11/09/14 23:17 | 141108L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0650 | 0.0300 | 0.00567 | 1.00 | |
| Chromium | ND | 0.500 | 0.164 | 1.00 | |
| Copper | 3.04 | 0.0300 | 0.00898 | 1.00 | B |
| Lead | 0.298 | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 18.6 | 0.500 | 0.0736 | 1.00 | B |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 11/03/14
Work Order: 14-11-0041
Preparation: EPA 3005A Total
Method: EPA 1640
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-06-G-S-20141102 | 14-11-0041-39-D | 11/02/14 12:06 | Sea Water | ICP/MS 05 | 11/08/14 | 11/09/14 23:25 | 141108L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0601 | 0.0300 | 0.00567 | 1.00 | |
| Chromium | ND | 0.500 | 0.164 | 1.00 | |
| Copper | 2.65 | 0.0300 | 0.00898 | 1.00 | B |
| Lead | 0.223 | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 13.6 | 0.500 | 0.0736 | 1.00 | B |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-05-G-S-20141102 | 14-11-0041-42-D | 11/02/14 12:50 | Sea Water | ICP/MS 05 | 11/08/14 | 11/09/14 23:33 | 141108L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0441 | 0.0300 | 0.00567 | 1.00 | |
| Chromium | ND | 0.500 | 0.164 | 1.00 | |
| Copper | 1.00 | 0.0300 | 0.00898 | 1.00 | B |
| Lead | 0.137 | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 4.67 | 0.500 | 0.0736 | 1.00 | B |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| FH-RW-07-G-S-20141102 | 14-11-0041-45-D | 11/02/14 13:38 | Sea Water | ICP/MS 05 | 11/08/14 | 11/09/14 23:41 | 141108L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0643 | 0.0300 | 0.00567 | 1.00 | |
| Chromium | ND | 0.500 | 0.164 | 1.00 | |
| Copper | 4.31 | 0.0300 | 0.00898 | 1.00 | B |
| Lead | 0.347 | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 11.9 | 0.500 | 0.0736 | 1.00 | B |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 11/03/14
Work Order: 14-11-0041
Preparation: EPA 3005A Total
Method: EPA 1640
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| CM-RW-10-G-S-20141102 | 14-11-0041-48-D | 11/02/14 14:52 | Sea Water | ICP/MS 05 | 11/08/14 | 11/09/14 23:49 | 141108L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0575 | 0.0300 | 0.00567 | 1.00 | |
| Chromium | ND | 0.500 | 0.164 | 1.00 | |
| Copper | 4.84 | 0.0300 | 0.00898 | 1.00 | B |
| Lead | 0.132 | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 16.4 | 0.500 | 0.0736 | 1.00 | B |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| FB-20141102 | 14-11-0041-51-D | 11/02/14 15:15 | Sea Water | ICP/MS 05 | 11/08/14 | 11/09/14 17:08 | 141108L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | ND | 0.0300 | 0.00567 | 1.00 | |
| Chromium | ND | 0.500 | 0.164 | 1.00 | |
| Copper | 0.0372 | 0.0300 | 0.00898 | 1.00 | B |
| Lead | ND | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 0.207 | 0.500 | 0.0736 | 1.00 | B,J |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| CB-RW-11-G-S-20141102 | 14-11-0041-52-D | 11/02/14 15:33 | Sea Water | ICP/MS 05 | 11/08/14 | 11/09/14 23:57 | 141108L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0577 | 0.0300 | 0.00567 | 1.00 | |
| Chromium | ND | 0.500 | 0.164 | 1.00 | |
| Copper | 2.42 | 0.0300 | 0.00898 | 1.00 | B |
| Lead | 0.129 | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 8.87 | 0.500 | 0.0736 | 1.00 | B |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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Analytical Report

| | | |
|------------------------------|----------------|-----------------|
| ANCHOR QEA, LLC | Date Received: | 11/03/14 |
| 27201 Puerta Real, Suite 350 | Work Order: | 14-11-0041 |
| Mission Viejo, CA 92691-8306 | Preparation: | EPA 3005A Total |
| | Method: | EPA 1640 |
| | Units: | ug/L |

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-------------------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OB-RW-17-G-S-20141102-LAB DUP | 14-11-0041-55-D | 11/02/14 13:25 | Sea Water | ICP/MS 05 | 11/08/14 | 11/10/14 00:05 | 141108L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0441 | 0.0300 | 0.00567 | 1.00 | |
| Chromium | ND | 0.500 | 0.164 | 1.00 | |
| Copper | 0.995 | 0.0300 | 0.00898 | 1.00 | B |
| Lead | 0.207 | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 3.64 | 0.500 | 0.0736 | 1.00 | B |

| Method Blank | 099-13-067-463 | N/A | Aqueous | ICP/MS 05 | 11/08/14 | 11/09/14 15:00 | 141108L01 |
|--------------|----------------|-----|---------|-----------|----------|-------------------|-----------|
|--------------|----------------|-----|---------|-----------|----------|-------------------|-----------|

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | ND | 0.0300 | 0.00567 | 1.00 | |
| Chromium | ND | 0.500 | 0.164 | 1.00 | |
| Copper | 0.0147 | 0.0300 | 0.00898 | 1.00 | J |
| Lead | ND | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 0.171 | 0.500 | 0.0736 | 1.00 | J |

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 11/03/14
 Work Order: 14-11-0041
 Preparation: EPA 3005A Filt.
 Method: EPA 1640
 Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IB-RW-12-G-S-20141102 | 14-11-0041-1-C | 11/02/14 08:45 | Sea Water | ICP/MS 05 | 11/08/14 | 11/09/14 17:16 | 141108L02F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0549 | 0.0300 | 0.00567 | 1.00 | |
| Chromium | ND | 0.500 | 0.164 | 1.00 | |
| Copper | 1.49 | 0.0300 | 0.00898 | 1.00 | B |
| Lead | 0.0417 | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 13.7 | 0.500 | 0.0736 | 1.00 | B |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IB-RW-13-G-S-20141102 | 14-11-0041-5-C | 11/02/14 11:05 | Sea Water | ICP/MS 05 | 11/08/14 | 11/09/14 17:24 | 141108L02F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0442 | 0.0300 | 0.00567 | 1.00 | |
| Chromium | ND | 0.500 | 0.164 | 1.00 | |
| Copper | 0.691 | 0.0300 | 0.00898 | 1.00 | B |
| Lead | 0.0276 | 0.0300 | 0.0135 | 1.00 | J |
| Zinc | 4.32 | 0.500 | 0.0736 | 1.00 | B |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IB-RW-14-G-S-20141102 | 14-11-0041-8-C | 11/02/14 11:50 | Sea Water | ICP/MS 05 | 11/08/14 | 11/09/14 18:05 | 141108L02F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0498 | 0.0300 | 0.00567 | 1.00 | |
| Chromium | ND | 0.500 | 0.164 | 1.00 | |
| Copper | 0.893 | 0.0300 | 0.00898 | 1.00 | B |
| Lead | 0.0278 | 0.0300 | 0.0135 | 1.00 | J |
| Zinc | 2.97 | 0.500 | 0.0736 | 1.00 | B |

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 11/03/14
Work Order: 14-11-0041
Preparation: EPA 3005A Filt.
Method: EPA 1640
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IB-RW-15-G-S-20141102 | 14-11-0041-11-C | 11/02/14 12:30 | Sea Water | ICP/MS 05 | 11/08/14 | 11/09/14 18:13 | 141108L02F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0380 | 0.0300 | 0.00567 | 1.00 | |
| Chromium | ND | 0.500 | 0.164 | 1.00 | |
| Copper | 0.838 | 0.0300 | 0.00898 | 1.00 | B |
| Lead | ND | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 3.55 | 0.500 | 0.0736 | 1.00 | B |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OB-RW-17-G-S-20141102 | 14-11-0041-14-C | 11/02/14 13:25 | Sea Water | ICP/MS 05 | 11/08/14 | 11/09/14 20:37 | 141108L02F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0474 | 0.0300 | 0.00567 | 1.00 | |
| Chromium | ND | 0.500 | 0.164 | 1.00 | |
| Copper | 0.679 | 0.0300 | 0.00898 | 1.00 | B |
| Lead | 0.0274 | 0.0300 | 0.0135 | 1.00 | J |
| Zinc | 3.35 | 0.500 | 0.0736 | 1.00 | B |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OB-RW-16-G-S-20141102 | 14-11-0041-17-C | 11/02/14 14:10 | Sea Water | ICP/MS 05 | 11/08/14 | 11/09/14 18:21 | 141108L02F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0446 | 0.0300 | 0.00567 | 1.00 | |
| Chromium | ND | 0.500 | 0.164 | 1.00 | |
| Copper | 0.520 | 0.0300 | 0.00898 | 1.00 | B |
| Lead | 0.0300 | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 1.87 | 0.500 | 0.0736 | 1.00 | B |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 11/03/14
Work Order: 14-11-0041
Preparation: EPA 3005A Filt.
Method: EPA 1640
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OA-RW-08-G-S-20141102 | 14-11-0041-20-C | 11/02/14 14:50 | Sea Water | ICP/MS 05 | 11/08/14 | 11/09/14 18:29 | 141108L02F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0268 | 0.0300 | 0.00567 | 1.00 | J |
| Chromium | ND | 0.500 | 0.164 | 1.00 | |
| Copper | 0.177 | 0.0300 | 0.00898 | 1.00 | B |
| Lead | ND | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 0.985 | 0.500 | 0.0736 | 1.00 | B |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OA-RW-09-G-S-20141102 | 14-11-0041-23-C | 11/02/14 15:20 | Sea Water | ICP/MS 05 | 11/08/14 | 11/09/14 18:37 | 141108L02F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0501 | 0.0300 | 0.00567 | 1.00 | |
| Chromium | ND | 0.500 | 0.164 | 1.00 | |
| Copper | 1.14 | 0.0300 | 0.00898 | 1.00 | B |
| Lead | 0.0245 | 0.0300 | 0.0135 | 1.00 | J |
| Zinc | 4.93 | 0.500 | 0.0736 | 1.00 | B |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| CS-RW-01-G-S-20141102 | 14-11-0041-26-C | 11/02/14 08:52 | Sea Water | ICP/MS 05 | 11/08/14 | 11/09/14 18:45 | 141108L02F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0864 | 0.0300 | 0.00567 | 1.00 | |
| Chromium | ND | 0.500 | 0.164 | 1.00 | |
| Copper | 2.71 | 0.0300 | 0.00898 | 1.00 | B |
| Lead | 0.104 | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 24.1 | 0.500 | 0.0736 | 1.00 | B |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 11/03/14
Work Order: 14-11-0041
Preparation: EPA 3005A Filt.
Method: EPA 1640
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-02-G-S-20141102 | 14-11-0041-29-C | 11/02/14 09:56 | Sea Water | ICP/MS 05 | 11/08/14 | 11/09/14 18:53 | 141108L02F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0778 | 0.0300 | 0.00567 | 1.00 | |
| Chromium | ND | 0.500 | 0.164 | 1.00 | |
| Copper | 2.54 | 0.0300 | 0.00898 | 1.00 | B |
| Lead | 0.0692 | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 17.9 | 0.500 | 0.0736 | 1.00 | B |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-03-G-S-20141102 | 14-11-0041-32-C | 11/02/14 10:38 | Sea Water | ICP/MS 05 | 11/08/14 | 11/09/14 19:01 | 141108L02F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0653 | 0.0300 | 0.00567 | 1.00 | |
| Chromium | ND | 0.500 | 0.164 | 1.00 | |
| Copper | 1.66 | 0.0300 | 0.00898 | 1.00 | B |
| Lead | 0.0427 | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 6.66 | 0.500 | 0.0736 | 1.00 | B |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-04-G-S-20141102 | 14-11-0041-35-C | 11/02/14 11:13 | Sea Water | ICP/MS 05 | 11/08/14 | 11/09/14 19:09 | 141108L02F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0766 | 0.0300 | 0.00567 | 1.00 | |
| Chromium | ND | 0.500 | 0.164 | 1.00 | |
| Copper | 2.35 | 0.0300 | 0.00898 | 1.00 | B |
| Lead | 0.0583 | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 17.0 | 0.500 | 0.0736 | 1.00 | B |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 11/03/14
Work Order: 14-11-0041
Preparation: EPA 3005A Filt.
Method: EPA 1640
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-06-G-S-20141102 | 14-11-0041-39-C | 11/02/14 12:06 | Sea Water | ICP/MS 05 | 11/08/14 | 11/09/14 19:49 | 141108L02F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0636 | 0.0300 | 0.00567 | 1.00 | |
| Chromium | ND | 0.500 | 0.164 | 1.00 | |
| Copper | 1.84 | 0.0300 | 0.00898 | 1.00 | B |
| Lead | 0.0481 | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 12.7 | 0.500 | 0.0736 | 1.00 | B |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-05-G-S-20141102 | 14-11-0041-42-C | 11/02/14 12:50 | Sea Water | ICP/MS 05 | 11/08/14 | 11/09/14 19:57 | 141108L02F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0509 | 0.0300 | 0.00567 | 1.00 | |
| Chromium | ND | 0.500 | 0.164 | 1.00 | |
| Copper | 0.663 | 0.0300 | 0.00898 | 1.00 | B |
| Lead | 0.0186 | 0.0300 | 0.0135 | 1.00 | J |
| Zinc | 3.77 | 0.500 | 0.0736 | 1.00 | B |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| FH-RW-07-G-S-20141102 | 14-11-0041-45-C | 11/02/14 13:38 | Sea Water | ICP/MS 05 | 11/08/14 | 11/09/14 20:05 | 141108L02F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0670 | 0.0300 | 0.00567 | 1.00 | |
| Chromium | ND | 0.500 | 0.164 | 1.00 | |
| Copper | 2.59 | 0.0300 | 0.00898 | 1.00 | B |
| Lead | 0.0458 | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 10.5 | 0.500 | 0.0736 | 1.00 | B |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 11/03/14
Work Order: 14-11-0041
Preparation: EPA 3005A Filt.
Method: EPA 1640
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| CM-RW-10-G-S-20141102 | 14-11-0041-48-C | 11/02/14 14:52 | Sea Water | ICP/MS 05 | 11/08/14 | 11/09/14 20:13 | 141108L02F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0256 | 0.0300 | 0.00567 | 1.00 | J |
| Chromium | ND | 0.500 | 0.164 | 1.00 | |
| Copper | 2.30 | 0.0300 | 0.00898 | 1.00 | B |
| Lead | ND | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 1.69 | 0.500 | 0.0736 | 1.00 | B |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| FB-20141102 | 14-11-0041-51-C | 11/02/14 15:15 | Sea Water | ICP/MS 05 | 11/08/14 | 11/09/14 17:00 | 141108L02F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | ND | 0.0300 | 0.00567 | 1.00 | |
| Chromium | ND | 0.500 | 0.164 | 1.00 | |
| Copper | 0.0367 | 0.0300 | 0.00898 | 1.00 | B |
| Lead | ND | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 0.250 | 0.500 | 0.0736 | 1.00 | B,J |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| CB-RW-11-G-S-20141102 | 14-11-0041-52-C | 11/02/14 15:33 | Sea Water | ICP/MS 05 | 11/08/14 | 11/09/14 20:21 | 141108L02F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0653 | 0.0300 | 0.00567 | 1.00 | |
| Chromium | ND | 0.500 | 0.164 | 1.00 | |
| Copper | 1.58 | 0.0300 | 0.00898 | 1.00 | B |
| Lead | 0.0215 | 0.0300 | 0.0135 | 1.00 | J |
| Zinc | 8.18 | 0.500 | 0.0736 | 1.00 | B |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

| | | |
|------------------------------|----------------|-----------------|
| ANCHOR QEA, LLC | Date Received: | 11/03/14 |
| 27201 Puerta Real, Suite 350 | Work Order: | 14-11-0041 |
| Mission Viejo, CA 92691-8306 | Preparation: | EPA 3005A Filt. |
| | Method: | EPA 1640 |
| | Units: | ug/L |

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-------------------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OB-RW-17-G-S-20141102-LAB DUP | 14-11-0041-55-C | 11/02/14 13:25 | Sea Water | ICP/MS 05 | 11/08/14 | 11/09/14 20:29 | 141108L02F |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|--------|---------|------|------------|
| Cadmium | 0.0446 | 0.0300 | 0.00567 | 1.00 | |
| Chromium | ND | 0.500 | 0.164 | 1.00 | |
| Copper | 0.657 | 0.0300 | 0.00898 | 1.00 | B |
| Lead | 0.0203 | 0.0300 | 0.0135 | 1.00 | J |
| Zinc | 3.33 | 0.500 | 0.0736 | 1.00 | B |

| Method Blank | 099-15-823-119 | N/A | Aqueous | ICP/MS 05 | 11/08/14 | 11/09/14 15:16 | 141108L02F |
|--------------|----------------|-----|---------|-----------|----------|-------------------|------------|
|--------------|----------------|-----|---------|-----------|----------|-------------------|------------|

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|---------|--------|---------|------|------------|
| Cadmium | ND | 0.0300 | 0.00567 | 1.00 | |
| Chromium | ND | 0.500 | 0.164 | 1.00 | |
| Copper | 0.00918 | 0.0300 | 0.00898 | 1.00 | J |
| Lead | ND | 0.0300 | 0.0135 | 1.00 | |
| Zinc | 0.116 | 0.500 | 0.0736 | 1.00 | J |



Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 11/03/14
 Work Order: 14-11-0041
 Preparation: EPA 3510C
 Method: EPA 8081A
 Units: ng/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IB-RW-12-G-S-20141102 | 14-11-0041-1-F | 11/02/14 08:45 | Sea Water | GC 44 | 11/07/14 | 11/08/14 10:26 | 141107L05 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------------------------|----------|----------------|------------|------|------------|
| 2,4'-DDD | ND | 1.9 | 0.56 | 1.00 | |
| 2,4'-DDE | ND | 1.9 | 0.47 | 1.00 | |
| 2,4'-DDT | ND | 1.9 | 0.66 | 1.00 | |
| 4,4'-DDD | ND | 1.9 | 0.53 | 1.00 | |
| 4,4'-DDE | ND | 1.9 | 0.46 | 1.00 | |
| 4,4'-DDT | ND | 1.9 | 0.53 | 1.00 | |
| Alpha Chlordane | ND | 1.9 | 0.47 | 1.00 | |
| Cis-nonachlor | ND | 1.9 | 0.48 | 1.00 | |
| Dieldrin | ND | 1.9 | 0.53 | 1.00 | |
| Gamma Chlordane | ND | 1.9 | 0.47 | 1.00 | |
| Oxychlordane | ND | 1.9 | 0.60 | 1.00 | |
| Toxaphene | ND | 24 | 7.9 | 1.00 | |
| Trans-nonachlor | ND | 1.9 | 0.54 | 1.00 | |
| Surrogate | Rec. (%) | Control Limits | Qualifiers | | |
| Decachlorobiphenyl | 102 | 50-150 | | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 96 | 50-150 | | | |

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 11/03/14
Work Order: 14-11-0041
Preparation: EPA 3510C
Method: EPA 8081A
Units: ng/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IB-RW-13-G-S-20141102 | 14-11-0041-5-G | 11/02/14 11:05 | Sea Water | GC 44 | 11/07/14 | 11/08/14 10:40 | 141107L05 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------------------------|----------|----------------|------------|------|------------|
| 2,4'-DDD | ND | 1.9 | 0.56 | 1.00 | |
| 2,4'-DDE | ND | 1.9 | 0.47 | 1.00 | |
| 2,4'-DDT | ND | 1.9 | 0.65 | 1.00 | |
| 4,4'-DDD | ND | 1.9 | 0.52 | 1.00 | |
| 4,4'-DDE | ND | 1.9 | 0.46 | 1.00 | |
| 4,4'-DDT | ND | 1.9 | 0.53 | 1.00 | |
| Alpha Chlordane | ND | 1.9 | 0.47 | 1.00 | |
| Cis-nonachlor | ND | 1.9 | 0.48 | 1.00 | |
| Dieldrin | ND | 1.9 | 0.52 | 1.00 | |
| Gamma Chlordane | ND | 1.9 | 0.47 | 1.00 | |
| Oxychlordane | ND | 1.9 | 0.60 | 1.00 | |
| Toxaphene | ND | 24 | 7.9 | 1.00 | |
| Trans-nonachlor | ND | 1.9 | 0.53 | 1.00 | |
| Surrogate | Rec. (%) | Control Limits | Qualifiers | | |
| Decachlorobiphenyl | 106 | 50-150 | | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 95 | 50-150 | | | |

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 11/03/14
Work Order: 14-11-0041
Preparation: EPA 3510C
Method: EPA 8081A
Units: ng/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IB-RW-14-G-S-20141102 | 14-11-0041-8-G | 11/02/14 11:50 | Sea Water | GC 44 | 11/07/14 | 11/08/14 10:54 | 141107L05 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------------------------|----------|----------------|------------|------|------------|
| 2,4'-DDD | ND | 1.9 | 0.56 | 1.00 | |
| 2,4'-DDE | ND | 1.9 | 0.47 | 1.00 | |
| 2,4'-DDT | ND | 1.9 | 0.65 | 1.00 | |
| 4,4'-DDD | ND | 1.9 | 0.52 | 1.00 | |
| 4,4'-DDE | ND | 1.9 | 0.46 | 1.00 | |
| 4,4'-DDT | ND | 1.9 | 0.53 | 1.00 | |
| Alpha Chlordane | ND | 1.9 | 0.47 | 1.00 | |
| Cis-nonachlor | ND | 1.9 | 0.48 | 1.00 | |
| Dieldrin | ND | 1.9 | 0.52 | 1.00 | |
| Gamma Chlordane | ND | 1.9 | 0.47 | 1.00 | |
| Oxychlordane | ND | 1.9 | 0.60 | 1.00 | |
| Toxaphene | ND | 24 | 7.9 | 1.00 | |
| Trans-nonachlor | ND | 1.9 | 0.53 | 1.00 | |
| Surrogate | Rec. (%) | Control Limits | Qualifiers | | |
| Decachlorobiphenyl | 106 | 50-150 | | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 93 | 50-150 | | | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 11/03/14
Work Order: 14-11-0041
Preparation: EPA 3510C
Method: EPA 8081A
Units: ng/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IB-RW-15-G-S-20141102 | 14-11-0041-11-G | 11/02/14 12:30 | Sea Water | GC 44 | 11/07/14 | 11/08/14 11:07 | 141107L05 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------------------------|----------|----------------|------------|------|------------|
| 2,4'-DDD | ND | 1.9 | 0.56 | 1.00 | |
| 2,4'-DDE | ND | 1.9 | 0.47 | 1.00 | |
| 2,4'-DDT | ND | 1.9 | 0.65 | 1.00 | |
| 4,4'-DDD | ND | 1.9 | 0.52 | 1.00 | |
| 4,4'-DDE | ND | 1.9 | 0.46 | 1.00 | |
| 4,4'-DDT | ND | 1.9 | 0.53 | 1.00 | |
| Alpha Chlordane | ND | 1.9 | 0.47 | 1.00 | |
| Cis-nonachlor | ND | 1.9 | 0.48 | 1.00 | |
| Dieldrin | ND | 1.9 | 0.52 | 1.00 | |
| Gamma Chlordane | ND | 1.9 | 0.47 | 1.00 | |
| Oxychlordane | ND | 1.9 | 0.60 | 1.00 | |
| Toxaphene | ND | 24 | 7.9 | 1.00 | |
| Trans-nonachlor | ND | 1.9 | 0.53 | 1.00 | |
| Surrogate | Rec. (%) | Control Limits | Qualifiers | | |
| Decachlorobiphenyl | 115 | 50-150 | | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 101 | 50-150 | | | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 11/03/14
Work Order: 14-11-0041
Preparation: EPA 3510C
Method: EPA 8081A
Units: ng/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OB-RW-17-G-S-20141102 | 14-11-0041-14-O | 11/02/14 13:25 | Sea Water | GC 44 | 11/07/14 | 11/08/14 11:21 | 141107L05 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------------------------|----------|----------------|------------|------|------------|
| 2,4'-DDD | ND | 1.9 | 0.56 | 1.00 | |
| 2,4'-DDE | ND | 1.9 | 0.47 | 1.00 | |
| 2,4'-DDT | ND | 1.9 | 0.66 | 1.00 | |
| 4,4'-DDD | ND | 1.9 | 0.53 | 1.00 | |
| 4,4'-DDE | ND | 1.9 | 0.46 | 1.00 | |
| 4,4'-DDT | ND | 1.9 | 0.53 | 1.00 | |
| Alpha Chlordane | ND | 1.9 | 0.47 | 1.00 | |
| Cis-nonachlor | ND | 1.9 | 0.48 | 1.00 | |
| Dieldrin | ND | 1.9 | 0.53 | 1.00 | |
| Gamma Chlordane | ND | 1.9 | 0.47 | 1.00 | |
| Oxychlordane | ND | 1.9 | 0.60 | 1.00 | |
| Toxaphene | ND | 24 | 7.9 | 1.00 | |
| Trans-nonachlor | ND | 1.9 | 0.54 | 1.00 | |
| Surrogate | Rec. (%) | Control Limits | Qualifiers | | |
| Decachlorobiphenyl | 105 | 50-150 | | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 89 | 50-150 | | | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

| | | |
|------------------------------|----------------|------------|
| ANCHOR QEA, LLC | Date Received: | 11/03/14 |
| 27201 Puerta Real, Suite 350 | Work Order: | 14-11-0041 |
| Mission Viejo, CA 92691-8306 | Preparation: | EPA 3510C |
| | Method: | EPA 8081A |
| | Units: | ng/L |

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OB-RW-16-G-S-20141102 | 14-11-0041-17-G | 11/02/14 14:10 | Sea Water | GC 44 | 11/07/14 | 11/08/14 11:36 | 141107L05 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------------------------|----------|----------------|------------|------|------------|
| 2,4'-DDD | ND | 1.9 | 0.56 | 1.00 | |
| 2,4'-DDE | ND | 1.9 | 0.47 | 1.00 | |
| 2,4'-DDT | ND | 1.9 | 0.65 | 1.00 | |
| 4,4'-DDD | ND | 1.9 | 0.52 | 1.00 | |
| 4,4'-DDE | ND | 1.9 | 0.46 | 1.00 | |
| 4,4'-DDT | ND | 1.9 | 0.53 | 1.00 | |
| Alpha Chlordane | ND | 1.9 | 0.47 | 1.00 | |
| Cis-nonachlor | ND | 1.9 | 0.48 | 1.00 | |
| Dieldrin | ND | 1.9 | 0.52 | 1.00 | |
| Gamma Chlordane | ND | 1.9 | 0.47 | 1.00 | |
| Oxychlordane | ND | 1.9 | 0.60 | 1.00 | |
| Toxaphene | ND | 24 | 7.9 | 1.00 | |
| Trans-nonachlor | ND | 1.9 | 0.53 | 1.00 | |
| Surrogate | Rec. (%) | Control Limits | Qualifiers | | |
| Decachlorobiphenyl | 108 | 50-150 | | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 83 | 50-150 | | | |



 Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

| | | |
|------------------------------|----------------|------------|
| ANCHOR QEA, LLC | Date Received: | 11/03/14 |
| 27201 Puerta Real, Suite 350 | Work Order: | 14-11-0041 |
| Mission Viejo, CA 92691-8306 | Preparation: | EPA 3510C |
| | Method: | EPA 8081A |
| | Units: | ng/L |

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OA-RW-08-G-S-20141102 | 14-11-0041-20-G | 11/02/14 14:50 | Sea Water | GC 44 | 11/07/14 | 11/08/14 11:49 | 141107L05 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------------------------|----------|----------------|------------|------|------------|
| 2,4'-DDD | ND | 1.9 | 0.56 | 1.00 | |
| 2,4'-DDE | ND | 1.9 | 0.47 | 1.00 | |
| 2,4'-DDT | ND | 1.9 | 0.65 | 1.00 | |
| 4,4'-DDD | ND | 1.9 | 0.52 | 1.00 | |
| 4,4'-DDE | ND | 1.9 | 0.46 | 1.00 | |
| 4,4'-DDT | ND | 1.9 | 0.53 | 1.00 | |
| Alpha Chlordane | ND | 1.9 | 0.47 | 1.00 | |
| Cis-nonachlor | ND | 1.9 | 0.48 | 1.00 | |
| Dieldrin | ND | 1.9 | 0.52 | 1.00 | |
| Gamma Chlordane | ND | 1.9 | 0.47 | 1.00 | |
| Oxychlordane | ND | 1.9 | 0.60 | 1.00 | |
| Toxaphene | ND | 24 | 7.9 | 1.00 | |
| Trans-nonachlor | ND | 1.9 | 0.53 | 1.00 | |
| Surrogate | Rec. (%) | Control Limits | Qualifiers | | |
| Decachlorobiphenyl | 115 | 50-150 | | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 91 | 50-150 | | | |



 Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 11/03/14
Work Order: 14-11-0041
Preparation: EPA 3510C
Method: EPA 8081A
Units: ng/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OA-RW-09-G-S-20141102 | 14-11-0041-23-G | 11/02/14 15:20 | Sea Water | GC 44 | 11/07/14 | 11/08/14 12:02 | 141107L05 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------------------------|----------|----------------|------------|------|------------|
| 2,4'-DDD | ND | 1.9 | 0.56 | 1.00 | |
| 2,4'-DDE | ND | 1.9 | 0.47 | 1.00 | |
| 2,4'-DDT | ND | 1.9 | 0.65 | 1.00 | |
| 4,4'-DDD | ND | 1.9 | 0.52 | 1.00 | |
| 4,4'-DDE | ND | 1.9 | 0.46 | 1.00 | |
| 4,4'-DDT | ND | 1.9 | 0.53 | 1.00 | |
| Alpha Chlordane | ND | 1.9 | 0.47 | 1.00 | |
| Cis-nonachlor | ND | 1.9 | 0.48 | 1.00 | |
| Dieldrin | ND | 1.9 | 0.52 | 1.00 | |
| Gamma Chlordane | ND | 1.9 | 0.47 | 1.00 | |
| Oxychlordane | ND | 1.9 | 0.60 | 1.00 | |
| Toxaphene | ND | 24 | 7.9 | 1.00 | |
| Trans-nonachlor | ND | 1.9 | 0.53 | 1.00 | |
| Surrogate | Rec. (%) | Control Limits | Qualifiers | | |
| Decachlorobiphenyl | 88 | 50-150 | | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 72 | 50-150 | | | |

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 11/03/14
Work Order: 14-11-0041
Preparation: EPA 3510C
Method: EPA 8081A
Units: ng/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| CS-RW-01-G-S-20141102 | 14-11-0041-26-F | 11/02/14 08:52 | Sea Water | GC 44 | 11/07/14 | 11/08/14 12:17 | 141107L05 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------------------------|----------|----------------|------------|------|------------|
| 2,4'-DDD | ND | 1.9 | 0.56 | 1.00 | |
| 2,4'-DDE | ND | 1.9 | 0.47 | 1.00 | |
| 2,4'-DDT | ND | 1.9 | 0.65 | 1.00 | |
| 4,4'-DDD | ND | 1.9 | 0.52 | 1.00 | |
| 4,4'-DDE | ND | 1.9 | 0.46 | 1.00 | |
| 4,4'-DDT | ND | 1.9 | 0.53 | 1.00 | |
| Alpha Chlordane | ND | 1.9 | 0.47 | 1.00 | |
| Cis-nonachlor | ND | 1.9 | 0.48 | 1.00 | |
| Dieldrin | ND | 1.9 | 0.52 | 1.00 | |
| Gamma Chlordane | ND | 1.9 | 0.47 | 1.00 | |
| Oxychlordane | ND | 1.9 | 0.60 | 1.00 | |
| Toxaphene | ND | 24 | 7.9 | 1.00 | |
| Trans-nonachlor | ND | 1.9 | 0.53 | 1.00 | |
| Surrogate | Rec. (%) | Control Limits | Qualifiers | | |
| Decachlorobiphenyl | 101 | 50-150 | | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 102 | 50-150 | | | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 11/03/14
Work Order: 14-11-0041
Preparation: EPA 3510C
Method: EPA 8081A
Units: ng/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-02-G-S-20141102 | 14-11-0041-29-F | 11/02/14 09:56 | Sea Water | GC 44 | 11/07/14 | 11/08/14 12:31 | 141107L05 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------------------------|----------|----------------|------------|------|------------|
| 2,4'-DDD | ND | 1.9 | 0.56 | 1.00 | |
| 2,4'-DDE | ND | 1.9 | 0.47 | 1.00 | |
| 2,4'-DDT | ND | 1.9 | 0.66 | 1.00 | |
| 4,4'-DDD | ND | 1.9 | 0.53 | 1.00 | |
| 4,4'-DDE | ND | 1.9 | 0.46 | 1.00 | |
| 4,4'-DDT | ND | 1.9 | 0.53 | 1.00 | |
| Alpha Chlordane | ND | 1.9 | 0.47 | 1.00 | |
| Cis-nonachlor | ND | 1.9 | 0.48 | 1.00 | |
| Dieldrin | ND | 1.9 | 0.53 | 1.00 | |
| Gamma Chlordane | ND | 1.9 | 0.47 | 1.00 | |
| Oxychlordane | ND | 1.9 | 0.60 | 1.00 | |
| Toxaphene | ND | 24 | 7.9 | 1.00 | |
| Trans-nonachlor | ND | 1.9 | 0.54 | 1.00 | |
| Surrogate | Rec. (%) | Control Limits | Qualifiers | | |
| Decachlorobiphenyl | 103 | 50-150 | | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 93 | 50-150 | | | |

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 11/03/14
Work Order: 14-11-0041
Preparation: EPA 3510C
Method: EPA 8081A
Units: ng/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-03-G-S-20141102 | 14-11-0041-32-F | 11/02/14 10:38 | Sea Water | GC 44 | 11/07/14 | 11/08/14 12:45 | 141107L05 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------------------------|----------|----------------|------------|------|------------|
| 2,4'-DDD | ND | 1.9 | 0.56 | 1.00 | |
| 2,4'-DDE | ND | 1.9 | 0.47 | 1.00 | |
| 2,4'-DDT | ND | 1.9 | 0.66 | 1.00 | |
| 4,4'-DDD | ND | 1.9 | 0.53 | 1.00 | |
| 4,4'-DDE | ND | 1.9 | 0.46 | 1.00 | |
| 4,4'-DDT | ND | 1.9 | 0.53 | 1.00 | |
| Alpha Chlordane | ND | 1.9 | 0.47 | 1.00 | |
| Cis-nonachlor | ND | 1.9 | 0.48 | 1.00 | |
| Dieldrin | ND | 1.9 | 0.53 | 1.00 | |
| Gamma Chlordane | ND | 1.9 | 0.47 | 1.00 | |
| Oxychlordane | ND | 1.9 | 0.60 | 1.00 | |
| Toxaphene | ND | 24 | 7.9 | 1.00 | |
| Trans-nonachlor | ND | 1.9 | 0.54 | 1.00 | |
| Surrogate | Rec. (%) | Control Limits | Qualifiers | | |
| Decachlorobiphenyl | 89 | 50-150 | | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 75 | 50-150 | | | |



Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

| | | |
|------------------------------|----------------|------------|
| ANCHOR QEA, LLC | Date Received: | 11/03/14 |
| 27201 Puerta Real, Suite 350 | Work Order: | 14-11-0041 |
| Mission Viejo, CA 92691-8306 | Preparation: | EPA 3510C |
| | Method: | EPA 8081A |
| | Units: | ng/L |

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|------------------------------|------------------------|---------------------------|------------------|--------------|-----------------|---------------------------|------------------|
| IA-RW-04-G-S-20141102 | 14-11-0041-35-G | 11/02/14 11:13 | Sea Water | GC 44 | 11/07/14 | 11/08/14 13:00 | 141107L05 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------------------|-----------------|-----------------------|-------------------|-----------|-------------------|
| 2,4'-DDD | ND | 1.9 | 0.56 | 1.00 | |
| 2,4'-DDE | ND | 1.9 | 0.47 | 1.00 | |
| 2,4'-DDT | ND | 1.9 | 0.66 | 1.00 | |
| 4,4'-DDD | ND | 1.9 | 0.53 | 1.00 | |
| 4,4'-DDE | ND | 1.9 | 0.46 | 1.00 | |
| 4,4'-DDT | ND | 1.9 | 0.53 | 1.00 | |
| Alpha Chlordane | ND | 1.9 | 0.47 | 1.00 | |
| Cis-nonachlor | ND | 1.9 | 0.48 | 1.00 | |
| Dieldrin | ND | 1.9 | 0.53 | 1.00 | |
| Gamma Chlordane | ND | 1.9 | 0.47 | 1.00 | |
| Oxychlordane | ND | 1.9 | 0.60 | 1.00 | |
| Toxaphene | ND | 24 | 7.9 | 1.00 | |
| Trans-nonachlor | ND | 1.9 | 0.54 | 1.00 | |
| | | | | | |
| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> | | |
| Decachlorobiphenyl | 98 | 50-150 | | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 88 | 50-150 | | | |

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 11/03/14
Work Order: 14-11-0041
Preparation: EPA 3510C
Method: EPA 8081A
Units: ng/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-06-G-S-20141102 | 14-11-0041-39-F | 11/02/14 12:06 | Sea Water | GC 44 | 11/07/14 | 11/08/14 13:14 | 141107L05 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------------------------|----------|----------------|------------|------|------------|
| 2,4'-DDD | ND | 1.9 | 0.56 | 1.00 | |
| 2,4'-DDE | ND | 1.9 | 0.47 | 1.00 | |
| 2,4'-DDT | ND | 1.9 | 0.66 | 1.00 | |
| 4,4'-DDD | ND | 1.9 | 0.53 | 1.00 | |
| 4,4'-DDE | ND | 1.9 | 0.46 | 1.00 | |
| 4,4'-DDT | ND | 1.9 | 0.53 | 1.00 | |
| Alpha Chlordane | ND | 1.9 | 0.47 | 1.00 | |
| Cis-nonachlor | ND | 1.9 | 0.48 | 1.00 | |
| Dieldrin | ND | 1.9 | 0.53 | 1.00 | |
| Gamma Chlordane | ND | 1.9 | 0.47 | 1.00 | |
| Oxychlordane | ND | 1.9 | 0.60 | 1.00 | |
| Toxaphene | ND | 24 | 7.9 | 1.00 | |
| Trans-nonachlor | ND | 1.9 | 0.54 | 1.00 | |
| Surrogate | Rec. (%) | Control Limits | Qualifiers | | |
| Decachlorobiphenyl | 104 | 50-150 | | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 96 | 50-150 | | | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 11/03/14
Work Order: 14-11-0041
Preparation: EPA 3510C
Method: EPA 8081A
Units: ng/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-05-G-S-20141102 | 14-11-0041-42-G | 11/02/14 12:50 | Sea Water | GC 44 | 11/07/14 | 11/08/14 13:28 | 141107L05 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------------------------|----------|----------------|------------|------|------------|
| 2,4'-DDD | ND | 1.9 | 0.56 | 1.00 | |
| 2,4'-DDE | ND | 1.9 | 0.47 | 1.00 | |
| 2,4'-DDT | ND | 1.9 | 0.65 | 1.00 | |
| 4,4'-DDD | ND | 1.9 | 0.52 | 1.00 | |
| 4,4'-DDE | ND | 1.9 | 0.46 | 1.00 | |
| 4,4'-DDT | ND | 1.9 | 0.53 | 1.00 | |
| Alpha Chlordane | ND | 1.9 | 0.47 | 1.00 | |
| Cis-nonachlor | ND | 1.9 | 0.48 | 1.00 | |
| Dieldrin | ND | 1.9 | 0.52 | 1.00 | |
| Gamma Chlordane | ND | 1.9 | 0.47 | 1.00 | |
| Oxychlordane | ND | 1.9 | 0.60 | 1.00 | |
| Toxaphene | ND | 24 | 7.9 | 1.00 | |
| Trans-nonachlor | ND | 1.9 | 0.53 | 1.00 | |
| Surrogate | Rec. (%) | Control Limits | Qualifiers | | |
| Decachlorobiphenyl | 101 | 50-150 | | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 88 | 50-150 | | | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

| | | |
|------------------------------|----------------|------------|
| ANCHOR QEA, LLC | Date Received: | 11/03/14 |
| 27201 Puerta Real, Suite 350 | Work Order: | 14-11-0041 |
| Mission Viejo, CA 92691-8306 | Preparation: | EPA 3510C |
| | Method: | EPA 8081A |
| | Units: | ng/L |

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| FH-RW-07-G-S-20141102 | 14-11-0041-45-G | 11/02/14 13:38 | Sea Water | GC 44 | 11/07/14 | 11/08/14 13:41 | 141107L05 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------------------------|----------|----------------|------------|------|------------|
| 2,4'-DDD | ND | 1.9 | 0.56 | 1.00 | |
| 2,4'-DDE | ND | 1.9 | 0.47 | 1.00 | |
| 2,4'-DDT | ND | 1.9 | 0.65 | 1.00 | |
| 4,4'-DDD | ND | 1.9 | 0.52 | 1.00 | |
| 4,4'-DDE | ND | 1.9 | 0.46 | 1.00 | |
| 4,4'-DDT | ND | 1.9 | 0.53 | 1.00 | |
| Alpha Chlordane | ND | 1.9 | 0.47 | 1.00 | |
| Cis-nonachlor | ND | 1.9 | 0.48 | 1.00 | |
| Dieldrin | ND | 1.9 | 0.52 | 1.00 | |
| Gamma Chlordane | ND | 1.9 | 0.47 | 1.00 | |
| Oxychlordane | ND | 1.9 | 0.60 | 1.00 | |
| Toxaphene | ND | 24 | 7.9 | 1.00 | |
| Trans-nonachlor | ND | 1.9 | 0.53 | 1.00 | |
| Surrogate | Rec. (%) | Control Limits | Qualifiers | | |
| Decachlorobiphenyl | 114 | 50-150 | | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 98 | 50-150 | | | |



 Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 11/03/14
Work Order: 14-11-0041
Preparation: EPA 3510C
Method: EPA 8081A
Units: ng/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| CM-RW-10-G-S-20141102 | 14-11-0041-48-F | 11/02/14 14:52 | Sea Water | GC 44 | 11/07/14 | 11/08/14 13:54 | 141107L05 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------------------------|----------|----------------|------------|------|------------|
| 2,4'-DDD | ND | 1.9 | 0.56 | 1.00 | |
| 2,4'-DDE | ND | 1.9 | 0.47 | 1.00 | |
| 2,4'-DDT | ND | 1.9 | 0.66 | 1.00 | |
| 4,4'-DDD | ND | 1.9 | 0.53 | 1.00 | |
| 4,4'-DDE | ND | 1.9 | 0.46 | 1.00 | |
| 4,4'-DDT | ND | 1.9 | 0.53 | 1.00 | |
| Alpha Chlordane | ND | 1.9 | 0.47 | 1.00 | |
| Cis-nonachlor | ND | 1.9 | 0.48 | 1.00 | |
| Dieldrin | ND | 1.9 | 0.53 | 1.00 | |
| Gamma Chlordane | ND | 1.9 | 0.47 | 1.00 | |
| Oxychlordane | ND | 1.9 | 0.60 | 1.00 | |
| Toxaphene | ND | 24 | 7.9 | 1.00 | |
| Trans-nonachlor | ND | 1.9 | 0.54 | 1.00 | |
| Surrogate | Rec. (%) | Control Limits | Qualifiers | | |
| Decachlorobiphenyl | 104 | 50-150 | | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 90 | 50-150 | | | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 11/03/14
Work Order: 14-11-0041
Preparation: EPA 3510C
Method: EPA 8081A
Units: ng/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| CB-RW-11-G-S-20141102 | 14-11-0041-52-F | 11/02/14 15:33 | Sea Water | GC 44 | 11/07/14 | 11/08/14 14:07 | 141107L05 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------------------------|----------|----------------|------------|------|------------|
| 2,4'-DDD | ND | 1.9 | 0.56 | 1.00 | |
| 2,4'-DDE | ND | 1.9 | 0.47 | 1.00 | |
| 2,4'-DDT | ND | 1.9 | 0.66 | 1.00 | |
| 4,4'-DDD | ND | 1.9 | 0.53 | 1.00 | |
| 4,4'-DDE | ND | 1.9 | 0.46 | 1.00 | |
| 4,4'-DDT | ND | 1.9 | 0.53 | 1.00 | |
| Alpha Chlordane | ND | 1.9 | 0.47 | 1.00 | |
| Cis-nonachlor | ND | 1.9 | 0.48 | 1.00 | |
| Dieldrin | ND | 1.9 | 0.53 | 1.00 | |
| Gamma Chlordane | ND | 1.9 | 0.47 | 1.00 | |
| Oxychlordane | ND | 1.9 | 0.60 | 1.00 | |
| Toxaphene | ND | 24 | 7.9 | 1.00 | |
| Trans-nonachlor | ND | 1.9 | 0.54 | 1.00 | |
| Surrogate | Rec. (%) | Control Limits | Qualifiers | | |
| Decachlorobiphenyl | 100 | 50-150 | | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 81 | 50-150 | | | |

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 11/03/14
Work Order: 14-11-0041
Preparation: EPA 3510C
Method: EPA 8081A
Units: ng/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-------------------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OB-RW-17-G-S-20141102-LAB DUP | 14-11-0041-55-G | 11/02/14 13:25 | Sea Water | GC 44 | 11/07/14 | 11/08/14 14:20 | 141107L05 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------------------------|----------|----------------|------------|------|------------|
| 2,4'-DDD | ND | 1.9 | 0.56 | 1.00 | |
| 2,4'-DDE | ND | 1.9 | 0.47 | 1.00 | |
| 2,4'-DDT | ND | 1.9 | 0.65 | 1.00 | |
| 4,4'-DDD | ND | 1.9 | 0.52 | 1.00 | |
| 4,4'-DDE | ND | 1.9 | 0.46 | 1.00 | |
| 4,4'-DDT | ND | 1.9 | 0.53 | 1.00 | |
| Alpha Chlordane | ND | 1.9 | 0.47 | 1.00 | |
| Cis-nonachlor | ND | 1.9 | 0.48 | 1.00 | |
| Dieldrin | ND | 1.9 | 0.52 | 1.00 | |
| Gamma Chlordane | ND | 1.9 | 0.47 | 1.00 | |
| Oxychlordane | ND | 1.9 | 0.60 | 1.00 | |
| Toxaphene | ND | 24 | 7.9 | 1.00 | |
| Trans-nonachlor | ND | 1.9 | 0.53 | 1.00 | |
| Surrogate | Rec. (%) | Control Limits | Qualifiers | | |
| Decachlorobiphenyl | 106 | 50-150 | | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 91 | 50-150 | | | |

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

| | | |
|------------------------------|----------------|------------|
| ANCHOR QEA, LLC | Date Received: | 11/03/14 |
| 27201 Puerta Real, Suite 350 | Work Order: | 14-11-0041 |
| Mission Viejo, CA 92691-8306 | Preparation: | EPA 3510C |
| | Method: | EPA 8081A |
| | Units: | ng/L |

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|----------------------|---------------------|----------------|--------------|-----------------|---------------------------|------------------|
| Method Blank | 099-16-036-12 | N/A | Aqueous | GC 44 | 11/07/14 | 11/07/14 17:47 | 141107L05 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------------------|-----------------|-----------------------|-------------------|-----------|-------------------|
| 2,4'-DDD | ND | 2.0 | 0.58 | 1.00 | |
| 2,4'-DDE | ND | 2.0 | 0.49 | 1.00 | |
| 2,4'-DDT | ND | 2.0 | 0.69 | 1.00 | |
| 4,4'-DDD | ND | 2.0 | 0.55 | 1.00 | |
| 4,4'-DDE | ND | 2.0 | 0.48 | 1.00 | |
| 4,4'-DDT | ND | 2.0 | 0.55 | 1.00 | |
| Alpha Chlordane | ND | 2.0 | 0.49 | 1.00 | |
| Cis-nonachlor | ND | 2.0 | 0.50 | 1.00 | |
| Dieldrin | ND | 2.0 | 0.55 | 1.00 | |
| Gamma Chlordane | ND | 2.0 | 0.49 | 1.00 | |
| Oxychlordane | ND | 2.0 | 0.63 | 1.00 | |
| Toxaphene | ND | 25 | 8.2 | 1.00 | |
| Trans-nonachlor | ND | 2.0 | 0.56 | 1.00 | |
| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> | | |
| Decachlorobiphenyl | 96 | 50-150 | | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 103 | 50-150 | | | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 11/03/14
Work Order: 14-11-0041
Preparation: EPA 3510C
Method: EPA 8270C SIM PCB Congeners
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IB-RW-12-G-S-20141102 | 14-11-0041-1-E | 11/02/14 08:45 | Sea Water | GC/MS HHH | 11/08/14 | 11/09/14 16:41 | 141108L04 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------|--------|--------|---------|------|------------|
| PCB018 | ND | 0.0020 | 0.00041 | 1.00 | |
| PCB028 | ND | 0.0020 | 0.00065 | 1.00 | |
| PCB037 | ND | 0.0020 | 0.00047 | 1.00 | |
| PCB044 | ND | 0.0020 | 0.00076 | 1.00 | |
| PCB049 | ND | 0.0020 | 0.00077 | 1.00 | |
| PCB052 | ND | 0.0020 | 0.00050 | 1.00 | |
| PCB066 | ND | 0.0020 | 0.00056 | 1.00 | |
| PCB070 | ND | 0.0020 | 0.00037 | 1.00 | |
| PCB074 | ND | 0.0020 | 0.00042 | 1.00 | |
| PCB077 | ND | 0.0020 | 0.00064 | 1.00 | |
| PCB081 | ND | 0.0020 | 0.00047 | 1.00 | |
| PCB087 | ND | 0.0020 | 0.00049 | 1.00 | |
| PCB099 | ND | 0.0020 | 0.00059 | 1.00 | |
| PCB101 | ND | 0.0020 | 0.00057 | 1.00 | |
| PCB105 | ND | 0.0020 | 0.00037 | 1.00 | |
| PCB110 | ND | 0.0020 | 0.00049 | 1.00 | |
| PCB114 | ND | 0.0020 | 0.00043 | 1.00 | |
| PCB118 | ND | 0.0020 | 0.00048 | 1.00 | |
| PCB119 | ND | 0.0020 | 0.00042 | 1.00 | |
| PCB123 | ND | 0.0020 | 0.00075 | 1.00 | |
| PCB126 | ND | 0.0020 | 0.00053 | 1.00 | |
| PCB128 | ND | 0.0020 | 0.00069 | 1.00 | |
| PCB132/153 | ND | 0.0039 | 0.0012 | 1.00 | |
| PCB138/158 | ND | 0.0039 | 0.0011 | 1.00 | |
| PCB149 | ND | 0.0020 | 0.00050 | 1.00 | |
| PCB151 | ND | 0.0020 | 0.00060 | 1.00 | |
| PCB156 | ND | 0.0020 | 0.00050 | 1.00 | |
| PCB157 | ND | 0.0020 | 0.00074 | 1.00 | |
| PCB167 | ND | 0.0020 | 0.00085 | 1.00 | |
| PCB168 | ND | 0.0020 | 0.00032 | 1.00 | |
| PCB169 | ND | 0.0020 | 0.00055 | 1.00 | |
| PCB170 | ND | 0.0020 | 0.00055 | 1.00 | |
| PCB177 | ND | 0.0020 | 0.00056 | 1.00 | |
| PCB180 | ND | 0.0020 | 0.00070 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 11/03/14
Work Order: 14-11-0041
Preparation: EPA 3510C
Method: EPA 8270C SIM PCB Congeners
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|-----------------|-----------------------|-------------------|-----------|-------------------|
| PCB183 | ND | 0.0020 | 0.00052 | 1.00 | |
| PCB187 | ND | 0.0020 | 0.00055 | 1.00 | |
| PCB189 | ND | 0.0020 | 0.00039 | 1.00 | |
| PCB194 | ND | 0.0020 | 0.00041 | 1.00 | |
| PCB195 | ND | 0.0020 | 0.00035 | 1.00 | |
| PCB201 | ND | 0.0020 | 0.00071 | 1.00 | |
| PCB206 | ND | 0.0020 | 0.00025 | 1.00 | |
| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> | | |
| 2-Fluorobiphenyl | 82 | 50-150 | | | |
| p-Terphenyl-d14 | 106 | 50-150 | | | |

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

| | | |
|------------------------------|----------------|-----------------------------|
| ANCHOR QEA, LLC | Date Received: | 11/03/14 |
| 27201 Puerta Real, Suite 350 | Work Order: | 14-11-0041 |
| Mission Viejo, CA 92691-8306 | Preparation: | EPA 3510C |
| | Method: | EPA 8270C SIM PCB Congeners |
| | Units: | ug/L |

Project: GWMA - TMDL Compliance Monitoring Page 3 of 38

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|------------------------------|-----------------------|---------------------------|------------------|------------------|-----------------|---------------------------|------------------|
| IB-RW-13-G-S-20141102 | 14-11-0041-5-E | 11/02/14 11:05 | Sea Water | GC/MS HHH | 11/08/14 | 11/09/14 17:08 | 141108L04 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|---------------|-----------|------------|-----------|-------------------|
| PCB018 | ND | 0.0019 | 0.00040 | 1.00 | |
| PCB028 | ND | 0.0019 | 0.00063 | 1.00 | |
| PCB037 | ND | 0.0019 | 0.00046 | 1.00 | |
| PCB044 | ND | 0.0019 | 0.00074 | 1.00 | |
| PCB049 | ND | 0.0019 | 0.00074 | 1.00 | |
| PCB052 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB066 | ND | 0.0019 | 0.00055 | 1.00 | |
| PCB070 | ND | 0.0019 | 0.00036 | 1.00 | |
| PCB074 | ND | 0.0019 | 0.00041 | 1.00 | |
| PCB077 | ND | 0.0019 | 0.00062 | 1.00 | |
| PCB081 | ND | 0.0019 | 0.00046 | 1.00 | |
| PCB087 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB099 | ND | 0.0019 | 0.00058 | 1.00 | |
| PCB101 | ND | 0.0019 | 0.00055 | 1.00 | |
| PCB105 | ND | 0.0019 | 0.00036 | 1.00 | |
| PCB110 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB114 | ND | 0.0019 | 0.00042 | 1.00 | |
| PCB118 | ND | 0.0019 | 0.00047 | 1.00 | |
| PCB119 | ND | 0.0019 | 0.00041 | 1.00 | |
| PCB123 | ND | 0.0019 | 0.00073 | 1.00 | |
| PCB126 | ND | 0.0019 | 0.00052 | 1.00 | |
| PCB128 | ND | 0.0019 | 0.00067 | 1.00 | |
| PCB132/153 | ND | 0.0038 | 0.0011 | 1.00 | |
| PCB138/158 | ND | 0.0038 | 0.0011 | 1.00 | |
| PCB149 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB151 | ND | 0.0019 | 0.00058 | 1.00 | |
| PCB156 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB157 | ND | 0.0019 | 0.00072 | 1.00 | |
| PCB167 | ND | 0.0019 | 0.00083 | 1.00 | |
| PCB168 | ND | 0.0019 | 0.00031 | 1.00 | |
| PCB169 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB170 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB177 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB180 | ND | 0.0019 | 0.00068 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 11/03/14
 Work Order: 14-11-0041
 Preparation: EPA 3510C
 Method: EPA 8270C SIM PCB Congeners
 Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|-----------------|-----------------------|-------------------|-----------|-------------------|
| PCB183 | ND | 0.0019 | 0.00051 | 1.00 | |
| PCB187 | ND | 0.0019 | 0.00053 | 1.00 | |
| PCB189 | ND | 0.0019 | 0.00038 | 1.00 | |
| PCB194 | ND | 0.0019 | 0.00040 | 1.00 | |
| PCB195 | ND | 0.0019 | 0.00034 | 1.00 | |
| PCB201 | ND | 0.0019 | 0.00069 | 1.00 | |
| PCB206 | ND | 0.0019 | 0.00024 | 1.00 | |
| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> | | |
| 2-Fluorobiphenyl | 76 | 50-150 | | | |
| p-Terphenyl-d14 | 89 | 50-150 | | | |

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 11/03/14
Work Order: 14-11-0041
Preparation: EPA 3510C
Method: EPA 8270C SIM PCB Congeners
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IB-RW-14-G-S-20141102 | 14-11-0041-8-E | 11/02/14 11:50 | Sea Water | GC/MS HHH | 11/08/14 | 11/09/14 17:34 | 141108L04 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------|--------|--------|---------|------|------------|
| PCB018 | ND | 0.0019 | 0.00040 | 1.00 | |
| PCB028 | ND | 0.0019 | 0.00063 | 1.00 | |
| PCB037 | ND | 0.0019 | 0.00046 | 1.00 | |
| PCB044 | ND | 0.0019 | 0.00074 | 1.00 | |
| PCB049 | ND | 0.0019 | 0.00074 | 1.00 | |
| PCB052 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB066 | ND | 0.0019 | 0.00055 | 1.00 | |
| PCB070 | ND | 0.0019 | 0.00036 | 1.00 | |
| PCB074 | ND | 0.0019 | 0.00041 | 1.00 | |
| PCB077 | ND | 0.0019 | 0.00062 | 1.00 | |
| PCB081 | ND | 0.0019 | 0.00046 | 1.00 | |
| PCB087 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB099 | ND | 0.0019 | 0.00058 | 1.00 | |
| PCB101 | ND | 0.0019 | 0.00055 | 1.00 | |
| PCB105 | ND | 0.0019 | 0.00036 | 1.00 | |
| PCB110 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB114 | ND | 0.0019 | 0.00042 | 1.00 | |
| PCB118 | ND | 0.0019 | 0.00047 | 1.00 | |
| PCB119 | ND | 0.0019 | 0.00041 | 1.00 | |
| PCB123 | ND | 0.0019 | 0.00073 | 1.00 | |
| PCB126 | ND | 0.0019 | 0.00052 | 1.00 | |
| PCB128 | ND | 0.0019 | 0.00067 | 1.00 | |
| PCB132/153 | ND | 0.0038 | 0.0011 | 1.00 | |
| PCB138/158 | ND | 0.0038 | 0.0011 | 1.00 | |
| PCB149 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB151 | ND | 0.0019 | 0.00058 | 1.00 | |
| PCB156 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB157 | ND | 0.0019 | 0.00072 | 1.00 | |
| PCB167 | ND | 0.0019 | 0.00083 | 1.00 | |
| PCB168 | ND | 0.0019 | 0.00031 | 1.00 | |
| PCB169 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB170 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB177 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB180 | ND | 0.0019 | 0.00068 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 11/03/14
 Work Order: 14-11-0041
 Preparation: EPA 3510C
 Method: EPA 8270C SIM PCB Congeners
 Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|-----------------|-----------------------|-------------------|-----------|-------------------|
| PCB183 | ND | 0.0019 | 0.00051 | 1.00 | |
| PCB187 | ND | 0.0019 | 0.00053 | 1.00 | |
| PCB189 | ND | 0.0019 | 0.00038 | 1.00 | |
| PCB194 | ND | 0.0019 | 0.00040 | 1.00 | |
| PCB195 | ND | 0.0019 | 0.00034 | 1.00 | |
| PCB201 | ND | 0.0019 | 0.00069 | 1.00 | |
| PCB206 | ND | 0.0019 | 0.00024 | 1.00 | |
| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> | | |
| 2-Fluorobiphenyl | 76 | 50-150 | | | |
| p-Terphenyl-d14 | 94 | 50-150 | | | |

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 11/03/14
Work Order: 14-11-0041
Preparation: EPA 3510C
Method: EPA 8270C SIM PCB Congeners
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IB-RW-15-G-S-20141102 | 14-11-0041-11-E | 11/02/14 12:30 | Sea Water | GC/MS HHH | 11/08/14 | 11/09/14 18:01 | 141108L04 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------|--------|--------|---------|------|------------|
| PCB018 | ND | 0.0019 | 0.00040 | 1.00 | |
| PCB028 | ND | 0.0019 | 0.00063 | 1.00 | |
| PCB037 | ND | 0.0019 | 0.00046 | 1.00 | |
| PCB044 | ND | 0.0019 | 0.00074 | 1.00 | |
| PCB049 | ND | 0.0019 | 0.00074 | 1.00 | |
| PCB052 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB066 | ND | 0.0019 | 0.00055 | 1.00 | |
| PCB070 | ND | 0.0019 | 0.00036 | 1.00 | |
| PCB074 | ND | 0.0019 | 0.00041 | 1.00 | |
| PCB077 | ND | 0.0019 | 0.00062 | 1.00 | |
| PCB081 | ND | 0.0019 | 0.00046 | 1.00 | |
| PCB087 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB099 | ND | 0.0019 | 0.00058 | 1.00 | |
| PCB101 | ND | 0.0019 | 0.00055 | 1.00 | |
| PCB105 | ND | 0.0019 | 0.00036 | 1.00 | |
| PCB110 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB114 | ND | 0.0019 | 0.00042 | 1.00 | |
| PCB118 | ND | 0.0019 | 0.00047 | 1.00 | |
| PCB119 | ND | 0.0019 | 0.00041 | 1.00 | |
| PCB123 | ND | 0.0019 | 0.00073 | 1.00 | |
| PCB126 | ND | 0.0019 | 0.00052 | 1.00 | |
| PCB128 | ND | 0.0019 | 0.00067 | 1.00 | |
| PCB132/153 | ND | 0.0038 | 0.0011 | 1.00 | |
| PCB138/158 | ND | 0.0038 | 0.0011 | 1.00 | |
| PCB149 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB151 | ND | 0.0019 | 0.00058 | 1.00 | |
| PCB156 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB157 | ND | 0.0019 | 0.00072 | 1.00 | |
| PCB167 | ND | 0.0019 | 0.00083 | 1.00 | |
| PCB168 | ND | 0.0019 | 0.00031 | 1.00 | |
| PCB169 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB170 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB177 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB180 | ND | 0.0019 | 0.00068 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 11/03/14
Work Order: 14-11-0041
Preparation: EPA 3510C
Method: EPA 8270C SIM PCB Congeners
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|-----------------|-----------------------|-------------------|-----------|-------------------|
| PCB183 | ND | 0.0019 | 0.00051 | 1.00 | |
| PCB187 | ND | 0.0019 | 0.00053 | 1.00 | |
| PCB189 | ND | 0.0019 | 0.00038 | 1.00 | |
| PCB194 | ND | 0.0019 | 0.00040 | 1.00 | |
| PCB195 | ND | 0.0019 | 0.00034 | 1.00 | |
| PCB201 | ND | 0.0019 | 0.00069 | 1.00 | |
| PCB206 | ND | 0.0019 | 0.00024 | 1.00 | |
| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> | | |
| 2-Fluorobiphenyl | 91 | 50-150 | | | |
| p-Terphenyl-d14 | 115 | 50-150 | | | |

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

| | | |
|------------------------------|----------------|-----------------------------|
| ANCHOR QEA, LLC | Date Received: | 11/03/14 |
| 27201 Puerta Real, Suite 350 | Work Order: | 14-11-0041 |
| Mission Viejo, CA 92691-8306 | Preparation: | EPA 3510C |
| | Method: | EPA 8270C SIM PCB Congeners |
| | Units: | ug/L |

Project: GWMA - TMDL Compliance Monitoring Page 9 of 38

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OB-RW-17-G-S-20141102 | 14-11-0041-14-E | 11/02/14 13:25 | Sea Water | GC/MS HHH | 11/08/14 | 11/09/14 18:28 | 141108L04 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------|--------|--------|---------|------|------------|
| PCB018 | ND | 0.0019 | 0.00040 | 1.00 | |
| PCB028 | ND | 0.0019 | 0.00063 | 1.00 | |
| PCB037 | ND | 0.0019 | 0.00046 | 1.00 | |
| PCB044 | ND | 0.0019 | 0.00074 | 1.00 | |
| PCB049 | ND | 0.0019 | 0.00074 | 1.00 | |
| PCB052 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB066 | ND | 0.0019 | 0.00055 | 1.00 | |
| PCB070 | ND | 0.0019 | 0.00036 | 1.00 | |
| PCB074 | ND | 0.0019 | 0.00041 | 1.00 | |
| PCB077 | ND | 0.0019 | 0.00062 | 1.00 | |
| PCB081 | ND | 0.0019 | 0.00046 | 1.00 | |
| PCB087 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB099 | ND | 0.0019 | 0.00058 | 1.00 | |
| PCB101 | ND | 0.0019 | 0.00055 | 1.00 | |
| PCB105 | ND | 0.0019 | 0.00036 | 1.00 | |
| PCB110 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB114 | ND | 0.0019 | 0.00042 | 1.00 | |
| PCB118 | ND | 0.0019 | 0.00047 | 1.00 | |
| PCB119 | ND | 0.0019 | 0.00041 | 1.00 | |
| PCB123 | ND | 0.0019 | 0.00073 | 1.00 | |
| PCB126 | ND | 0.0019 | 0.00052 | 1.00 | |
| PCB128 | ND | 0.0019 | 0.00067 | 1.00 | |
| PCB132/153 | ND | 0.0038 | 0.0011 | 1.00 | |
| PCB138/158 | ND | 0.0038 | 0.0011 | 1.00 | |
| PCB149 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB151 | ND | 0.0019 | 0.00058 | 1.00 | |
| PCB156 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB157 | ND | 0.0019 | 0.00072 | 1.00 | |
| PCB167 | ND | 0.0019 | 0.00083 | 1.00 | |
| PCB168 | ND | 0.0019 | 0.00031 | 1.00 | |
| PCB169 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB170 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB177 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB180 | ND | 0.0019 | 0.00068 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 11/03/14
 Work Order: 14-11-0041
 Preparation: EPA 3510C
 Method: EPA 8270C SIM PCB Congeners
 Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|-----------------|-----------------------|-------------------|-----------|-------------------|
| PCB183 | ND | 0.0019 | 0.00051 | 1.00 | |
| PCB187 | ND | 0.0019 | 0.00053 | 1.00 | |
| PCB189 | ND | 0.0019 | 0.00038 | 1.00 | |
| PCB194 | ND | 0.0019 | 0.00040 | 1.00 | |
| PCB195 | ND | 0.0019 | 0.00034 | 1.00 | |
| PCB201 | ND | 0.0019 | 0.00069 | 1.00 | |
| PCB206 | ND | 0.0019 | 0.00024 | 1.00 | |
| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> | | |
| 2-Fluorobiphenyl | 75 | 50-150 | | | |
| p-Terphenyl-d14 | 98 | 50-150 | | | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 11/03/14
 Work Order: 14-11-0041
 Preparation: EPA 3510C
 Method: EPA 8270C SIM PCB Congeners
 Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OB-RW-16-G-S-20141102 | 14-11-0041-17-E | 11/02/14 14:10 | Sea Water | GC/MS HHH | 11/08/14 | 11/09/14 18:54 | 141108L04 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------|--------|--------|---------|------|------------|
| PCB018 | ND | 0.0019 | 0.00040 | 1.00 | |
| PCB028 | ND | 0.0019 | 0.00063 | 1.00 | |
| PCB037 | ND | 0.0019 | 0.00046 | 1.00 | |
| PCB044 | ND | 0.0019 | 0.00074 | 1.00 | |
| PCB049 | ND | 0.0019 | 0.00074 | 1.00 | |
| PCB052 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB066 | ND | 0.0019 | 0.00055 | 1.00 | |
| PCB070 | ND | 0.0019 | 0.00036 | 1.00 | |
| PCB074 | ND | 0.0019 | 0.00041 | 1.00 | |
| PCB077 | ND | 0.0019 | 0.00062 | 1.00 | |
| PCB081 | ND | 0.0019 | 0.00046 | 1.00 | |
| PCB087 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB099 | ND | 0.0019 | 0.00058 | 1.00 | |
| PCB101 | ND | 0.0019 | 0.00055 | 1.00 | |
| PCB105 | ND | 0.0019 | 0.00036 | 1.00 | |
| PCB110 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB114 | ND | 0.0019 | 0.00042 | 1.00 | |
| PCB118 | ND | 0.0019 | 0.00047 | 1.00 | |
| PCB119 | ND | 0.0019 | 0.00041 | 1.00 | |
| PCB123 | ND | 0.0019 | 0.00073 | 1.00 | |
| PCB126 | ND | 0.0019 | 0.00052 | 1.00 | |
| PCB128 | ND | 0.0019 | 0.00067 | 1.00 | |
| PCB132/153 | ND | 0.0038 | 0.0011 | 1.00 | |
| PCB138/158 | ND | 0.0038 | 0.0011 | 1.00 | |
| PCB149 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB151 | ND | 0.0019 | 0.00058 | 1.00 | |
| PCB156 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB157 | ND | 0.0019 | 0.00072 | 1.00 | |
| PCB167 | ND | 0.0019 | 0.00083 | 1.00 | |
| PCB168 | ND | 0.0019 | 0.00031 | 1.00 | |
| PCB169 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB170 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB177 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB180 | ND | 0.0019 | 0.00068 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 11/03/14
 Work Order: 14-11-0041
 Preparation: EPA 3510C
 Method: EPA 8270C SIM PCB Congeners
 Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|-----------------|-----------------------|-------------------|-----------|-------------------|
| PCB183 | ND | 0.0019 | 0.00051 | 1.00 | |
| PCB187 | ND | 0.0019 | 0.00053 | 1.00 | |
| PCB189 | ND | 0.0019 | 0.00038 | 1.00 | |
| PCB194 | ND | 0.0019 | 0.00040 | 1.00 | |
| PCB195 | ND | 0.0019 | 0.00034 | 1.00 | |
| PCB201 | ND | 0.0019 | 0.00069 | 1.00 | |
| PCB206 | ND | 0.0019 | 0.00024 | 1.00 | |
| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> | | |
| 2-Fluorobiphenyl | 108 | 50-150 | | | |
| p-Terphenyl-d14 | 155 | 50-150 | 1,2,7 | | |



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 11/03/14
Work Order: 14-11-0041
Preparation: EPA 3510C
Method: EPA 8270C SIM PCB Congeners
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OA-RW-08-G-S-20141102 | 14-11-0041-20-E | 11/02/14 14:50 | Sea Water | GC/MS HHH | 11/08/14 | 11/09/14 19:21 | 141108L04 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------|--------|--------|---------|------|------------|
| PCB018 | ND | 0.0019 | 0.00040 | 1.00 | |
| PCB028 | ND | 0.0019 | 0.00063 | 1.00 | |
| PCB037 | ND | 0.0019 | 0.00046 | 1.00 | |
| PCB044 | ND | 0.0019 | 0.00074 | 1.00 | |
| PCB049 | ND | 0.0019 | 0.00074 | 1.00 | |
| PCB052 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB066 | ND | 0.0019 | 0.00055 | 1.00 | |
| PCB070 | ND | 0.0019 | 0.00036 | 1.00 | |
| PCB074 | ND | 0.0019 | 0.00041 | 1.00 | |
| PCB077 | ND | 0.0019 | 0.00062 | 1.00 | |
| PCB081 | ND | 0.0019 | 0.00046 | 1.00 | |
| PCB087 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB099 | ND | 0.0019 | 0.00058 | 1.00 | |
| PCB101 | ND | 0.0019 | 0.00055 | 1.00 | |
| PCB105 | ND | 0.0019 | 0.00036 | 1.00 | |
| PCB110 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB114 | ND | 0.0019 | 0.00042 | 1.00 | |
| PCB118 | ND | 0.0019 | 0.00047 | 1.00 | |
| PCB119 | ND | 0.0019 | 0.00041 | 1.00 | |
| PCB123 | ND | 0.0019 | 0.00073 | 1.00 | |
| PCB126 | ND | 0.0019 | 0.00052 | 1.00 | |
| PCB128 | ND | 0.0019 | 0.00067 | 1.00 | |
| PCB132/153 | ND | 0.0038 | 0.0011 | 1.00 | |
| PCB138/158 | ND | 0.0038 | 0.0011 | 1.00 | |
| PCB149 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB151 | ND | 0.0019 | 0.00058 | 1.00 | |
| PCB156 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB157 | ND | 0.0019 | 0.00072 | 1.00 | |
| PCB167 | ND | 0.0019 | 0.00083 | 1.00 | |
| PCB168 | ND | 0.0019 | 0.00031 | 1.00 | |
| PCB169 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB170 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB177 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB180 | ND | 0.0019 | 0.00068 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 11/03/14
 Work Order: 14-11-0041
 Preparation: EPA 3510C
 Method: EPA 8270C SIM PCB Congeners
 Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|-----------------|-----------------------|-------------------|-----------|-------------------|
| PCB183 | ND | 0.0019 | 0.00051 | 1.00 | |
| PCB187 | ND | 0.0019 | 0.00053 | 1.00 | |
| PCB189 | ND | 0.0019 | 0.00038 | 1.00 | |
| PCB194 | ND | 0.0019 | 0.00040 | 1.00 | |
| PCB195 | ND | 0.0019 | 0.00034 | 1.00 | |
| PCB201 | ND | 0.0019 | 0.00069 | 1.00 | |
| PCB206 | ND | 0.0019 | 0.00024 | 1.00 | |
| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> | | |
| 2-Fluorobiphenyl | 67 | 50-150 | | | |
| p-Terphenyl-d14 | 96 | 50-150 | | | |


 Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

| | | |
|------------------------------|----------------|-----------------------------|
| ANCHOR QEA, LLC | Date Received: | 11/03/14 |
| 27201 Puerta Real, Suite 350 | Work Order: | 14-11-0041 |
| Mission Viejo, CA 92691-8306 | Preparation: | EPA 3510C |
| | Method: | EPA 8270C SIM PCB Congeners |
| | Units: | ug/L |

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OA-RW-09-G-S-20141102 | 14-11-0041-23-E | 11/02/14 15:20 | Sea Water | GC/MS HHH | 11/08/14 | 11/09/14 19:47 | 141108L04 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------|--------|--------|---------|------|------------|
| PCB018 | ND | 0.0019 | 0.00040 | 1.00 | |
| PCB028 | ND | 0.0019 | 0.00063 | 1.00 | |
| PCB037 | ND | 0.0019 | 0.00046 | 1.00 | |
| PCB044 | ND | 0.0019 | 0.00074 | 1.00 | |
| PCB049 | ND | 0.0019 | 0.00074 | 1.00 | |
| PCB052 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB066 | ND | 0.0019 | 0.00055 | 1.00 | |
| PCB070 | ND | 0.0019 | 0.00036 | 1.00 | |
| PCB074 | ND | 0.0019 | 0.00041 | 1.00 | |
| PCB077 | ND | 0.0019 | 0.00062 | 1.00 | |
| PCB081 | ND | 0.0019 | 0.00046 | 1.00 | |
| PCB087 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB099 | ND | 0.0019 | 0.00058 | 1.00 | |
| PCB101 | ND | 0.0019 | 0.00055 | 1.00 | |
| PCB105 | ND | 0.0019 | 0.00036 | 1.00 | |
| PCB110 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB114 | ND | 0.0019 | 0.00042 | 1.00 | |
| PCB118 | ND | 0.0019 | 0.00047 | 1.00 | |
| PCB119 | ND | 0.0019 | 0.00041 | 1.00 | |
| PCB123 | ND | 0.0019 | 0.00073 | 1.00 | |
| PCB126 | ND | 0.0019 | 0.00052 | 1.00 | |
| PCB128 | ND | 0.0019 | 0.00067 | 1.00 | |
| PCB132/153 | ND | 0.0038 | 0.0011 | 1.00 | |
| PCB138/158 | ND | 0.0038 | 0.0011 | 1.00 | |
| PCB149 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB151 | ND | 0.0019 | 0.00058 | 1.00 | |
| PCB156 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB157 | ND | 0.0019 | 0.00072 | 1.00 | |
| PCB167 | ND | 0.0019 | 0.00083 | 1.00 | |
| PCB168 | ND | 0.0019 | 0.00031 | 1.00 | |
| PCB169 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB170 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB177 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB180 | ND | 0.0019 | 0.00068 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 11/03/14
 Work Order: 14-11-0041
 Preparation: EPA 3510C
 Method: EPA 8270C SIM PCB Congeners
 Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|-----------------|-----------------------|-------------------|-----------|-------------------|
| PCB183 | ND | 0.0019 | 0.00051 | 1.00 | |
| PCB187 | ND | 0.0019 | 0.00053 | 1.00 | |
| PCB189 | ND | 0.0019 | 0.00038 | 1.00 | |
| PCB194 | ND | 0.0019 | 0.00040 | 1.00 | |
| PCB195 | ND | 0.0019 | 0.00034 | 1.00 | |
| PCB201 | ND | 0.0019 | 0.00069 | 1.00 | |
| PCB206 | ND | 0.0019 | 0.00024 | 1.00 | |
| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> | | |
| 2-Fluorobiphenyl | 60 | 50-150 | | | |
| p-Terphenyl-d14 | 85 | 50-150 | | | |


 Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 11/03/14
Work Order: 14-11-0041
Preparation: EPA 3510C
Method: EPA 8270C SIM PCB Congeners
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| CS-RW-01-G-S-20141102 | 14-11-0041-26-E | 11/02/14 08:52 | Sea Water | GC/MS HHH | 11/08/14 | 11/09/14 20:15 | 141108L04 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------|--------|--------|---------|------|------------|
| PCB018 | ND | 0.0019 | 0.00040 | 1.00 | |
| PCB028 | ND | 0.0019 | 0.00063 | 1.00 | |
| PCB037 | ND | 0.0019 | 0.00046 | 1.00 | |
| PCB044 | ND | 0.0019 | 0.00074 | 1.00 | |
| PCB049 | ND | 0.0019 | 0.00074 | 1.00 | |
| PCB052 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB066 | ND | 0.0019 | 0.00055 | 1.00 | |
| PCB070 | ND | 0.0019 | 0.00036 | 1.00 | |
| PCB074 | ND | 0.0019 | 0.00041 | 1.00 | |
| PCB077 | ND | 0.0019 | 0.00062 | 1.00 | |
| PCB081 | ND | 0.0019 | 0.00046 | 1.00 | |
| PCB087 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB099 | ND | 0.0019 | 0.00058 | 1.00 | |
| PCB101 | ND | 0.0019 | 0.00055 | 1.00 | |
| PCB105 | ND | 0.0019 | 0.00036 | 1.00 | |
| PCB110 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB114 | ND | 0.0019 | 0.00042 | 1.00 | |
| PCB118 | ND | 0.0019 | 0.00047 | 1.00 | |
| PCB119 | ND | 0.0019 | 0.00041 | 1.00 | |
| PCB123 | ND | 0.0019 | 0.00073 | 1.00 | |
| PCB126 | ND | 0.0019 | 0.00052 | 1.00 | |
| PCB128 | ND | 0.0019 | 0.00067 | 1.00 | |
| PCB132/153 | ND | 0.0038 | 0.0011 | 1.00 | |
| PCB138/158 | ND | 0.0038 | 0.0011 | 1.00 | |
| PCB149 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB151 | ND | 0.0019 | 0.00058 | 1.00 | |
| PCB156 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB157 | ND | 0.0019 | 0.00072 | 1.00 | |
| PCB167 | ND | 0.0019 | 0.00083 | 1.00 | |
| PCB168 | ND | 0.0019 | 0.00031 | 1.00 | |
| PCB169 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB170 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB177 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB180 | ND | 0.0019 | 0.00068 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 11/03/14
 Work Order: 14-11-0041
 Preparation: EPA 3510C
 Method: EPA 8270C SIM PCB Congeners
 Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|-----------------|-----------------------|-------------------|-----------|-------------------|
| PCB183 | ND | 0.0019 | 0.00051 | 1.00 | |
| PCB187 | ND | 0.0019 | 0.00053 | 1.00 | |
| PCB189 | ND | 0.0019 | 0.00038 | 1.00 | |
| PCB194 | ND | 0.0019 | 0.00040 | 1.00 | |
| PCB195 | ND | 0.0019 | 0.00034 | 1.00 | |
| PCB201 | ND | 0.0019 | 0.00069 | 1.00 | |
| PCB206 | ND | 0.0019 | 0.00024 | 1.00 | |
| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> | | |
| 2-Fluorobiphenyl | 76 | 50-150 | | | |
| p-Terphenyl-d14 | 110 | 50-150 | | | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 11/03/14
Work Order: 14-11-0041
Preparation: EPA 3510C
Method: EPA 8270C SIM PCB Congeners
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-02-G-S-20141102 | 14-11-0041-29-E | 11/02/14 09:56 | Sea Water | GC/MS HHH | 11/08/14 | 11/09/14 20:41 | 141108L04 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------|--------|--------|---------|------|------------|
| PCB018 | ND | 0.0019 | 0.00040 | 1.00 | |
| PCB028 | ND | 0.0019 | 0.00064 | 1.00 | |
| PCB037 | ND | 0.0019 | 0.00046 | 1.00 | |
| PCB044 | ND | 0.0019 | 0.00075 | 1.00 | |
| PCB049 | ND | 0.0019 | 0.00075 | 1.00 | |
| PCB052 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB066 | ND | 0.0019 | 0.00055 | 1.00 | |
| PCB070 | ND | 0.0019 | 0.00037 | 1.00 | |
| PCB074 | ND | 0.0019 | 0.00041 | 1.00 | |
| PCB077 | ND | 0.0019 | 0.00063 | 1.00 | |
| PCB081 | ND | 0.0019 | 0.00047 | 1.00 | |
| PCB087 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB099 | ND | 0.0019 | 0.00058 | 1.00 | |
| PCB101 | ND | 0.0019 | 0.00056 | 1.00 | |
| PCB105 | ND | 0.0019 | 0.00036 | 1.00 | |
| PCB110 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB114 | ND | 0.0019 | 0.00042 | 1.00 | |
| PCB118 | ND | 0.0019 | 0.00047 | 1.00 | |
| PCB119 | ND | 0.0019 | 0.00041 | 1.00 | |
| PCB123 | ND | 0.0019 | 0.00074 | 1.00 | |
| PCB126 | ND | 0.0019 | 0.00052 | 1.00 | |
| PCB128 | ND | 0.0019 | 0.00068 | 1.00 | |
| PCB132/153 | ND | 0.0038 | 0.0011 | 1.00 | |
| PCB138/158 | ND | 0.0038 | 0.0011 | 1.00 | |
| PCB149 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB151 | ND | 0.0019 | 0.00059 | 1.00 | |
| PCB156 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB157 | ND | 0.0019 | 0.00072 | 1.00 | |
| PCB167 | ND | 0.0019 | 0.00083 | 1.00 | |
| PCB168 | ND | 0.0019 | 0.00032 | 1.00 | |
| PCB169 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB170 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB177 | ND | 0.0019 | 0.00055 | 1.00 | |
| PCB180 | ND | 0.0019 | 0.00069 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 11/03/14
 Work Order: 14-11-0041
 Preparation: EPA 3510C
 Method: EPA 8270C SIM PCB Congeners
 Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|-----------------|-----------------------|-------------------|-----------|-------------------|
| PCB183 | ND | 0.0019 | 0.00051 | 1.00 | |
| PCB187 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB189 | ND | 0.0019 | 0.00038 | 1.00 | |
| PCB194 | ND | 0.0019 | 0.00040 | 1.00 | |
| PCB195 | ND | 0.0019 | 0.00034 | 1.00 | |
| PCB201 | ND | 0.0019 | 0.00070 | 1.00 | |
| PCB206 | ND | 0.0019 | 0.00025 | 1.00 | |
| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> | | |
| 2-Fluorobiphenyl | 70 | 50-150 | | | |
| p-Terphenyl-d14 | 116 | 50-150 | | | |

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 11/03/14
Work Order: 14-11-0041
Preparation: EPA 3510C
Method: EPA 8270C SIM PCB Congeners
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-03-G-S-20141102 | 14-11-0041-32-E | 11/02/14 10:38 | Sea Water | GC/MS HHH | 11/08/14 | 11/09/14 21:08 | 141108L04 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------|--------|--------|---------|------|------------|
| PCB018 | ND | 0.0019 | 0.00040 | 1.00 | |
| PCB028 | ND | 0.0019 | 0.00063 | 1.00 | |
| PCB037 | ND | 0.0019 | 0.00046 | 1.00 | |
| PCB044 | ND | 0.0019 | 0.00074 | 1.00 | |
| PCB049 | ND | 0.0019 | 0.00074 | 1.00 | |
| PCB052 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB066 | ND | 0.0019 | 0.00055 | 1.00 | |
| PCB070 | ND | 0.0019 | 0.00036 | 1.00 | |
| PCB074 | ND | 0.0019 | 0.00041 | 1.00 | |
| PCB077 | ND | 0.0019 | 0.00062 | 1.00 | |
| PCB081 | ND | 0.0019 | 0.00046 | 1.00 | |
| PCB087 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB099 | ND | 0.0019 | 0.00058 | 1.00 | |
| PCB101 | ND | 0.0019 | 0.00055 | 1.00 | |
| PCB105 | ND | 0.0019 | 0.00036 | 1.00 | |
| PCB110 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB114 | ND | 0.0019 | 0.00042 | 1.00 | |
| PCB118 | ND | 0.0019 | 0.00047 | 1.00 | |
| PCB119 | ND | 0.0019 | 0.00041 | 1.00 | |
| PCB123 | ND | 0.0019 | 0.00073 | 1.00 | |
| PCB126 | ND | 0.0019 | 0.00052 | 1.00 | |
| PCB128 | ND | 0.0019 | 0.00067 | 1.00 | |
| PCB132/153 | ND | 0.0038 | 0.0011 | 1.00 | |
| PCB138/158 | ND | 0.0038 | 0.0011 | 1.00 | |
| PCB149 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB151 | ND | 0.0019 | 0.00058 | 1.00 | |
| PCB156 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB157 | ND | 0.0019 | 0.00072 | 1.00 | |
| PCB167 | ND | 0.0019 | 0.00083 | 1.00 | |
| PCB168 | ND | 0.0019 | 0.00031 | 1.00 | |
| PCB169 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB170 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB177 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB180 | ND | 0.0019 | 0.00068 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 11/03/14
 Work Order: 14-11-0041
 Preparation: EPA 3510C
 Method: EPA 8270C SIM PCB Congeners
 Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|-----------------|-----------------------|-------------------|-----------|-------------------|
| PCB183 | ND | 0.0019 | 0.00051 | 1.00 | |
| PCB187 | ND | 0.0019 | 0.00053 | 1.00 | |
| PCB189 | ND | 0.0019 | 0.00038 | 1.00 | |
| PCB194 | ND | 0.0019 | 0.00040 | 1.00 | |
| PCB195 | ND | 0.0019 | 0.00034 | 1.00 | |
| PCB201 | ND | 0.0019 | 0.00069 | 1.00 | |
| PCB206 | ND | 0.0019 | 0.00024 | 1.00 | |
| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> | | |
| 2-Fluorobiphenyl | 78 | 50-150 | | | |
| p-Terphenyl-d14 | 105 | 50-150 | | | |

Analytical Report

| | | |
|------------------------------|----------------|-----------------------------|
| ANCHOR QEA, LLC | Date Received: | 11/03/14 |
| 27201 Puerta Real, Suite 350 | Work Order: | 14-11-0041 |
| Mission Viejo, CA 92691-8306 | Preparation: | EPA 3510C |
| | Method: | EPA 8270C SIM PCB Congeners |
| | Units: | ug/L |

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-04-G-S-20141102 | 14-11-0041-35-E | 11/02/14 11:13 | Sea Water | GC/MS HHH | 11/08/14 | 11/09/14 21:35 | 141108L04 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|---------------|-----------|------------|-----------|-------------------|
| PCB018 | ND | 0.0019 | 0.00040 | 1.00 | |
| PCB028 | ND | 0.0019 | 0.00064 | 1.00 | |
| PCB037 | ND | 0.0019 | 0.00046 | 1.00 | |
| PCB044 | ND | 0.0019 | 0.00075 | 1.00 | |
| PCB049 | ND | 0.0019 | 0.00075 | 1.00 | |
| PCB052 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB066 | ND | 0.0019 | 0.00055 | 1.00 | |
| PCB070 | ND | 0.0019 | 0.00037 | 1.00 | |
| PCB074 | ND | 0.0019 | 0.00041 | 1.00 | |
| PCB077 | ND | 0.0019 | 0.00063 | 1.00 | |
| PCB081 | ND | 0.0019 | 0.00047 | 1.00 | |
| PCB087 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB099 | ND | 0.0019 | 0.00058 | 1.00 | |
| PCB101 | ND | 0.0019 | 0.00056 | 1.00 | |
| PCB105 | ND | 0.0019 | 0.00036 | 1.00 | |
| PCB110 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB114 | ND | 0.0019 | 0.00042 | 1.00 | |
| PCB118 | ND | 0.0019 | 0.00047 | 1.00 | |
| PCB119 | ND | 0.0019 | 0.00041 | 1.00 | |
| PCB123 | ND | 0.0019 | 0.00074 | 1.00 | |
| PCB126 | ND | 0.0019 | 0.00052 | 1.00 | |
| PCB128 | ND | 0.0019 | 0.00068 | 1.00 | |
| PCB132/153 | ND | 0.0038 | 0.0011 | 1.00 | |
| PCB138/158 | ND | 0.0038 | 0.0011 | 1.00 | |
| PCB149 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB151 | ND | 0.0019 | 0.00059 | 1.00 | |
| PCB156 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB157 | ND | 0.0019 | 0.00072 | 1.00 | |
| PCB167 | ND | 0.0019 | 0.00083 | 1.00 | |
| PCB168 | ND | 0.0019 | 0.00032 | 1.00 | |
| PCB169 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB170 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB177 | ND | 0.0019 | 0.00055 | 1.00 | |
| PCB180 | ND | 0.0019 | 0.00069 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 11/03/14
Work Order: 14-11-0041
Preparation: EPA 3510C
Method: EPA 8270C SIM PCB Congeners
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|-----------------|-----------------------|-------------------|-----------|-------------------|
| PCB183 | ND | 0.0019 | 0.00051 | 1.00 | |
| PCB187 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB189 | ND | 0.0019 | 0.00038 | 1.00 | |
| PCB194 | ND | 0.0019 | 0.00040 | 1.00 | |
| PCB195 | ND | 0.0019 | 0.00034 | 1.00 | |
| PCB201 | ND | 0.0019 | 0.00070 | 1.00 | |
| PCB206 | ND | 0.0019 | 0.00025 | 1.00 | |
| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> | | |
| 2-Fluorobiphenyl | 69 | 50-150 | | | |
| p-Terphenyl-d14 | 100 | 50-150 | | | |

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

| | | |
|------------------------------|----------------|-----------------------------|
| ANCHOR QEA, LLC | Date Received: | 11/03/14 |
| 27201 Puerta Real, Suite 350 | Work Order: | 14-11-0041 |
| Mission Viejo, CA 92691-8306 | Preparation: | EPA 3510C |
| | Method: | EPA 8270C SIM PCB Congeners |
| | Units: | ug/L |

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-06-G-S-20141102 | 14-11-0041-39-E | 11/02/14 12:06 | Sea Water | GC/MS HHH | 11/08/14 | 11/09/14 22:01 | 141108L04 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------|--------|--------|---------|------|------------|
| PCB018 | ND | 0.0019 | 0.00040 | 1.00 | |
| PCB028 | ND | 0.0019 | 0.00064 | 1.00 | |
| PCB037 | ND | 0.0019 | 0.00046 | 1.00 | |
| PCB044 | ND | 0.0019 | 0.00075 | 1.00 | |
| PCB049 | ND | 0.0019 | 0.00075 | 1.00 | |
| PCB052 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB066 | ND | 0.0019 | 0.00055 | 1.00 | |
| PCB070 | ND | 0.0019 | 0.00037 | 1.00 | |
| PCB074 | ND | 0.0019 | 0.00041 | 1.00 | |
| PCB077 | ND | 0.0019 | 0.00063 | 1.00 | |
| PCB081 | ND | 0.0019 | 0.00047 | 1.00 | |
| PCB087 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB099 | ND | 0.0019 | 0.00058 | 1.00 | |
| PCB101 | ND | 0.0019 | 0.00056 | 1.00 | |
| PCB105 | ND | 0.0019 | 0.00036 | 1.00 | |
| PCB110 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB114 | ND | 0.0019 | 0.00042 | 1.00 | |
| PCB118 | ND | 0.0019 | 0.00047 | 1.00 | |
| PCB119 | ND | 0.0019 | 0.00041 | 1.00 | |
| PCB123 | ND | 0.0019 | 0.00074 | 1.00 | |
| PCB126 | ND | 0.0019 | 0.00052 | 1.00 | |
| PCB128 | ND | 0.0019 | 0.00068 | 1.00 | |
| PCB132/153 | ND | 0.0038 | 0.0011 | 1.00 | |
| PCB138/158 | ND | 0.0038 | 0.0011 | 1.00 | |
| PCB149 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB151 | ND | 0.0019 | 0.00059 | 1.00 | |
| PCB156 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB157 | ND | 0.0019 | 0.00072 | 1.00 | |
| PCB167 | ND | 0.0019 | 0.00083 | 1.00 | |
| PCB168 | ND | 0.0019 | 0.00032 | 1.00 | |
| PCB169 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB170 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB177 | ND | 0.0019 | 0.00055 | 1.00 | |
| PCB180 | ND | 0.0019 | 0.00069 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 11/03/14
 Work Order: 14-11-0041
 Preparation: EPA 3510C
 Method: EPA 8270C SIM PCB Congeners
 Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|-----------------|-----------------------|-------------------|-----------|-------------------|
| PCB183 | ND | 0.0019 | 0.00051 | 1.00 | |
| PCB187 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB189 | ND | 0.0019 | 0.00038 | 1.00 | |
| PCB194 | ND | 0.0019 | 0.00040 | 1.00 | |
| PCB195 | ND | 0.0019 | 0.00034 | 1.00 | |
| PCB201 | ND | 0.0019 | 0.00070 | 1.00 | |
| PCB206 | ND | 0.0019 | 0.00025 | 1.00 | |
| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> | | |
| 2-Fluorobiphenyl | 61 | 50-150 | | | |
| p-Terphenyl-d14 | 86 | 50-150 | | | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 11/03/14
Work Order: 14-11-0041
Preparation: EPA 3510C
Method: EPA 8270C SIM PCB Congeners
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| IA-RW-05-G-S-20141102 | 14-11-0041-42-E | 11/02/14 12:50 | Sea Water | GC/MS HHH | 11/08/14 | 11/09/14 22:28 | 141108L04 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------|--------|--------|---------|------|------------|
| PCB018 | ND | 0.0019 | 0.00040 | 1.00 | |
| PCB028 | ND | 0.0019 | 0.00064 | 1.00 | |
| PCB037 | ND | 0.0019 | 0.00046 | 1.00 | |
| PCB044 | ND | 0.0019 | 0.00075 | 1.00 | |
| PCB049 | ND | 0.0019 | 0.00075 | 1.00 | |
| PCB052 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB066 | ND | 0.0019 | 0.00055 | 1.00 | |
| PCB070 | ND | 0.0019 | 0.00037 | 1.00 | |
| PCB074 | ND | 0.0019 | 0.00041 | 1.00 | |
| PCB077 | ND | 0.0019 | 0.00063 | 1.00 | |
| PCB081 | ND | 0.0019 | 0.00047 | 1.00 | |
| PCB087 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB099 | ND | 0.0019 | 0.00058 | 1.00 | |
| PCB101 | ND | 0.0019 | 0.00056 | 1.00 | |
| PCB105 | ND | 0.0019 | 0.00036 | 1.00 | |
| PCB110 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB114 | ND | 0.0019 | 0.00042 | 1.00 | |
| PCB118 | ND | 0.0019 | 0.00047 | 1.00 | |
| PCB119 | ND | 0.0019 | 0.00041 | 1.00 | |
| PCB123 | ND | 0.0019 | 0.00074 | 1.00 | |
| PCB126 | ND | 0.0019 | 0.00052 | 1.00 | |
| PCB128 | ND | 0.0019 | 0.00068 | 1.00 | |
| PCB132/153 | ND | 0.0038 | 0.0011 | 1.00 | |
| PCB138/158 | ND | 0.0038 | 0.0011 | 1.00 | |
| PCB149 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB151 | ND | 0.0019 | 0.00059 | 1.00 | |
| PCB156 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB157 | ND | 0.0019 | 0.00072 | 1.00 | |
| PCB167 | ND | 0.0019 | 0.00083 | 1.00 | |
| PCB168 | ND | 0.0019 | 0.00032 | 1.00 | |
| PCB169 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB170 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB177 | ND | 0.0019 | 0.00055 | 1.00 | |
| PCB180 | ND | 0.0019 | 0.00069 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 11/03/14
 Work Order: 14-11-0041
 Preparation: EPA 3510C
 Method: EPA 8270C SIM PCB Congeners
 Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|-----------------|-----------------------|-------------------|-----------|-------------------|
| PCB183 | ND | 0.0019 | 0.00051 | 1.00 | |
| PCB187 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB189 | ND | 0.0019 | 0.00038 | 1.00 | |
| PCB194 | ND | 0.0019 | 0.00040 | 1.00 | |
| PCB195 | ND | 0.0019 | 0.00034 | 1.00 | |
| PCB201 | ND | 0.0019 | 0.00070 | 1.00 | |
| PCB206 | ND | 0.0019 | 0.00025 | 1.00 | |
| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> | | |
| 2-Fluorobiphenyl | 85 | 50-150 | | | |
| p-Terphenyl-d14 | 95 | 50-150 | | | |

Return to Contents 

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

| | | |
|------------------------------|----------------|-----------------------------|
| ANCHOR QEA, LLC | Date Received: | 11/03/14 |
| 27201 Puerta Real, Suite 350 | Work Order: | 14-11-0041 |
| Mission Viejo, CA 92691-8306 | Preparation: | EPA 3510C |
| | Method: | EPA 8270C SIM PCB Congeners |
| | Units: | ug/L |

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| FH-RW-07-G-S-20141102 | 14-11-0041-45-E | 11/02/14 13:38 | Sea Water | GC/MS HHH | 11/08/14 | 11/09/14 22:55 | 141108L04 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------|--------|--------|---------|------|------------|
| PCB018 | ND | 0.0019 | 0.00040 | 1.00 | |
| PCB028 | ND | 0.0019 | 0.00064 | 1.00 | |
| PCB037 | ND | 0.0019 | 0.00046 | 1.00 | |
| PCB044 | ND | 0.0019 | 0.00075 | 1.00 | |
| PCB049 | ND | 0.0019 | 0.00075 | 1.00 | |
| PCB052 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB066 | ND | 0.0019 | 0.00055 | 1.00 | |
| PCB070 | ND | 0.0019 | 0.00037 | 1.00 | |
| PCB074 | ND | 0.0019 | 0.00041 | 1.00 | |
| PCB077 | ND | 0.0019 | 0.00063 | 1.00 | |
| PCB081 | ND | 0.0019 | 0.00047 | 1.00 | |
| PCB087 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB099 | ND | 0.0019 | 0.00058 | 1.00 | |
| PCB101 | ND | 0.0019 | 0.00056 | 1.00 | |
| PCB105 | ND | 0.0019 | 0.00036 | 1.00 | |
| PCB110 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB114 | ND | 0.0019 | 0.00042 | 1.00 | |
| PCB118 | ND | 0.0019 | 0.00047 | 1.00 | |
| PCB119 | ND | 0.0019 | 0.00041 | 1.00 | |
| PCB123 | ND | 0.0019 | 0.00074 | 1.00 | |
| PCB126 | ND | 0.0019 | 0.00052 | 1.00 | |
| PCB128 | ND | 0.0019 | 0.00068 | 1.00 | |
| PCB132/153 | ND | 0.0038 | 0.0011 | 1.00 | |
| PCB138/158 | ND | 0.0038 | 0.0011 | 1.00 | |
| PCB149 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB151 | ND | 0.0019 | 0.00059 | 1.00 | |
| PCB156 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB157 | ND | 0.0019 | 0.00072 | 1.00 | |
| PCB167 | ND | 0.0019 | 0.00083 | 1.00 | |
| PCB168 | ND | 0.0019 | 0.00032 | 1.00 | |
| PCB169 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB170 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB177 | ND | 0.0019 | 0.00055 | 1.00 | |
| PCB180 | ND | 0.0019 | 0.00069 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 11/03/14
 Work Order: 14-11-0041
 Preparation: EPA 3510C
 Method: EPA 8270C SIM PCB Congeners
 Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|-----------------|-----------------------|-------------------|-----------|-------------------|
| PCB183 | ND | 0.0019 | 0.00051 | 1.00 | |
| PCB187 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB189 | ND | 0.0019 | 0.00038 | 1.00 | |
| PCB194 | ND | 0.0019 | 0.00040 | 1.00 | |
| PCB195 | ND | 0.0019 | 0.00034 | 1.00 | |
| PCB201 | ND | 0.0019 | 0.00070 | 1.00 | |
| PCB206 | ND | 0.0019 | 0.00025 | 1.00 | |
| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> | | |
| 2-Fluorobiphenyl | 85 | 50-150 | | | |
| p-Terphenyl-d14 | 108 | 50-150 | | | |

Return to Contents 

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 11/03/14
Work Order: 14-11-0041
Preparation: EPA 3510C
Method: EPA 8270C SIM PCB Congeners
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| CM-RW-10-G-S-20141102 | 14-11-0041-48-E | 11/02/14 14:52 | Sea Water | GC/MS HHH | 11/08/14 | 11/09/14 23:21 | 141108L04 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------|--------|--------|---------|------|------------|
| PCB018 | ND | 0.0019 | 0.00040 | 1.00 | |
| PCB028 | ND | 0.0019 | 0.00064 | 1.00 | |
| PCB037 | ND | 0.0019 | 0.00046 | 1.00 | |
| PCB044 | ND | 0.0019 | 0.00075 | 1.00 | |
| PCB049 | ND | 0.0019 | 0.00075 | 1.00 | |
| PCB052 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB066 | ND | 0.0019 | 0.00055 | 1.00 | |
| PCB070 | ND | 0.0019 | 0.00037 | 1.00 | |
| PCB074 | ND | 0.0019 | 0.00041 | 1.00 | |
| PCB077 | ND | 0.0019 | 0.00063 | 1.00 | |
| PCB081 | ND | 0.0019 | 0.00047 | 1.00 | |
| PCB087 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB099 | ND | 0.0019 | 0.00058 | 1.00 | |
| PCB101 | ND | 0.0019 | 0.00056 | 1.00 | |
| PCB105 | ND | 0.0019 | 0.00036 | 1.00 | |
| PCB110 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB114 | ND | 0.0019 | 0.00042 | 1.00 | |
| PCB118 | ND | 0.0019 | 0.00047 | 1.00 | |
| PCB119 | ND | 0.0019 | 0.00041 | 1.00 | |
| PCB123 | ND | 0.0019 | 0.00074 | 1.00 | |
| PCB126 | ND | 0.0019 | 0.00052 | 1.00 | |
| PCB128 | ND | 0.0019 | 0.00068 | 1.00 | |
| PCB132/153 | ND | 0.0038 | 0.0011 | 1.00 | |
| PCB138/158 | ND | 0.0038 | 0.0011 | 1.00 | |
| PCB149 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB151 | ND | 0.0019 | 0.00059 | 1.00 | |
| PCB156 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB157 | ND | 0.0019 | 0.00072 | 1.00 | |
| PCB167 | ND | 0.0019 | 0.00083 | 1.00 | |
| PCB168 | ND | 0.0019 | 0.00032 | 1.00 | |
| PCB169 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB170 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB177 | ND | 0.0019 | 0.00055 | 1.00 | |
| PCB180 | ND | 0.0019 | 0.00069 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 11/03/14
Work Order: 14-11-0041
Preparation: EPA 3510C
Method: EPA 8270C SIM PCB Congeners
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|-----------------|-----------------------|-------------------|-----------|-------------------|
| PCB183 | ND | 0.0019 | 0.00051 | 1.00 | |
| PCB187 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB189 | ND | 0.0019 | 0.00038 | 1.00 | |
| PCB194 | ND | 0.0019 | 0.00040 | 1.00 | |
| PCB195 | ND | 0.0019 | 0.00034 | 1.00 | |
| PCB201 | ND | 0.0019 | 0.00070 | 1.00 | |
| PCB206 | ND | 0.0019 | 0.00025 | 1.00 | |
| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> | | |
| 2-Fluorobiphenyl | 86 | 50-150 | | | |
| p-Terphenyl-d14 | 98 | 50-150 | | | |

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

| | | |
|------------------------------|----------------|-----------------------------|
| ANCHOR QEA, LLC | Date Received: | 11/03/14 |
| 27201 Puerta Real, Suite 350 | Work Order: | 14-11-0041 |
| Mission Viejo, CA 92691-8306 | Preparation: | EPA 3510C |
| | Method: | EPA 8270C SIM PCB Congeners |
| | Units: | ug/L |

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| CB-RW-11-G-S-20141102 | 14-11-0041-52-E | 11/02/14 15:33 | Sea Water | GC/MS HHH | 11/08/14 | 11/09/14 23:48 | 141108L04 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|---------------|-----------|------------|-----------|-------------------|
| PCB018 | ND | 0.0019 | 0.00040 | 1.00 | |
| PCB028 | ND | 0.0019 | 0.00063 | 1.00 | |
| PCB037 | ND | 0.0019 | 0.00046 | 1.00 | |
| PCB044 | ND | 0.0019 | 0.00074 | 1.00 | |
| PCB049 | ND | 0.0019 | 0.00074 | 1.00 | |
| PCB052 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB066 | ND | 0.0019 | 0.00055 | 1.00 | |
| PCB070 | ND | 0.0019 | 0.00036 | 1.00 | |
| PCB074 | ND | 0.0019 | 0.00041 | 1.00 | |
| PCB077 | ND | 0.0019 | 0.00062 | 1.00 | |
| PCB081 | ND | 0.0019 | 0.00046 | 1.00 | |
| PCB087 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB099 | ND | 0.0019 | 0.00058 | 1.00 | |
| PCB101 | ND | 0.0019 | 0.00055 | 1.00 | |
| PCB105 | ND | 0.0019 | 0.00036 | 1.00 | |
| PCB110 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB114 | ND | 0.0019 | 0.00042 | 1.00 | |
| PCB118 | ND | 0.0019 | 0.00047 | 1.00 | |
| PCB119 | ND | 0.0019 | 0.00041 | 1.00 | |
| PCB123 | ND | 0.0019 | 0.00073 | 1.00 | |
| PCB126 | ND | 0.0019 | 0.00052 | 1.00 | |
| PCB128 | ND | 0.0019 | 0.00067 | 1.00 | |
| PCB132/153 | ND | 0.0038 | 0.0011 | 1.00 | |
| PCB138/158 | ND | 0.0038 | 0.0011 | 1.00 | |
| PCB149 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB151 | ND | 0.0019 | 0.00058 | 1.00 | |
| PCB156 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB157 | ND | 0.0019 | 0.00072 | 1.00 | |
| PCB167 | ND | 0.0019 | 0.00083 | 1.00 | |
| PCB168 | ND | 0.0019 | 0.00031 | 1.00 | |
| PCB169 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB170 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB177 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB180 | ND | 0.0019 | 0.00068 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 11/03/14
 Work Order: 14-11-0041
 Preparation: EPA 3510C
 Method: EPA 8270C SIM PCB Congeners
 Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|-----------------|-----------------------|-------------------|-----------|-------------------|
| PCB183 | ND | 0.0019 | 0.00051 | 1.00 | |
| PCB187 | ND | 0.0019 | 0.00053 | 1.00 | |
| PCB189 | ND | 0.0019 | 0.00038 | 1.00 | |
| PCB194 | ND | 0.0019 | 0.00040 | 1.00 | |
| PCB195 | ND | 0.0019 | 0.00034 | 1.00 | |
| PCB201 | ND | 0.0019 | 0.00069 | 1.00 | |
| PCB206 | ND | 0.0019 | 0.00024 | 1.00 | |
| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> | | |
| 2-Fluorobiphenyl | 78 | 50-150 | | | |
| p-Terphenyl-d14 | 99 | 50-150 | | | |

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 11/03/14
Work Order: 14-11-0041
Preparation: EPA 3510C
Method: EPA 8270C SIM PCB Congeners
Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-------------------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------|
| OB-RW-17-G-S-20141102-LAB DUP | 14-11-0041-55-M | 11/02/14 13:25 | Sea Water | GC/MS HHH | 11/08/14 | 11/10/14 00:15 | 141108L04 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------|--------|--------|---------|------|------------|
| PCB018 | ND | 0.0019 | 0.00040 | 1.00 | |
| PCB028 | ND | 0.0019 | 0.00063 | 1.00 | |
| PCB037 | ND | 0.0019 | 0.00046 | 1.00 | |
| PCB044 | ND | 0.0019 | 0.00074 | 1.00 | |
| PCB049 | ND | 0.0019 | 0.00074 | 1.00 | |
| PCB052 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB066 | ND | 0.0019 | 0.00055 | 1.00 | |
| PCB070 | ND | 0.0019 | 0.00036 | 1.00 | |
| PCB074 | ND | 0.0019 | 0.00041 | 1.00 | |
| PCB077 | ND | 0.0019 | 0.00062 | 1.00 | |
| PCB081 | ND | 0.0019 | 0.00046 | 1.00 | |
| PCB087 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB099 | ND | 0.0019 | 0.00058 | 1.00 | |
| PCB101 | ND | 0.0019 | 0.00055 | 1.00 | |
| PCB105 | ND | 0.0019 | 0.00036 | 1.00 | |
| PCB110 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB114 | ND | 0.0019 | 0.00042 | 1.00 | |
| PCB118 | ND | 0.0019 | 0.00047 | 1.00 | |
| PCB119 | ND | 0.0019 | 0.00041 | 1.00 | |
| PCB123 | ND | 0.0019 | 0.00073 | 1.00 | |
| PCB126 | ND | 0.0019 | 0.00052 | 1.00 | |
| PCB128 | ND | 0.0019 | 0.00067 | 1.00 | |
| PCB132/153 | ND | 0.0038 | 0.0011 | 1.00 | |
| PCB138/158 | ND | 0.0038 | 0.0011 | 1.00 | |
| PCB149 | ND | 0.0019 | 0.00048 | 1.00 | |
| PCB151 | ND | 0.0019 | 0.00058 | 1.00 | |
| PCB156 | ND | 0.0019 | 0.00049 | 1.00 | |
| PCB157 | ND | 0.0019 | 0.00072 | 1.00 | |
| PCB167 | ND | 0.0019 | 0.00083 | 1.00 | |
| PCB168 | ND | 0.0019 | 0.00031 | 1.00 | |
| PCB169 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB170 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB177 | ND | 0.0019 | 0.00054 | 1.00 | |
| PCB180 | ND | 0.0019 | 0.00068 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 11/03/14
 Work Order: 14-11-0041
 Preparation: EPA 3510C
 Method: EPA 8270C SIM PCB Congeners
 Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|-----------------|-----------------------|-------------------|-----------|-------------------|
| PCB183 | ND | 0.0019 | 0.00051 | 1.00 | |
| PCB187 | ND | 0.0019 | 0.00053 | 1.00 | |
| PCB189 | ND | 0.0019 | 0.00038 | 1.00 | |
| PCB194 | ND | 0.0019 | 0.00040 | 1.00 | |
| PCB195 | ND | 0.0019 | 0.00034 | 1.00 | |
| PCB201 | ND | 0.0019 | 0.00069 | 1.00 | |
| PCB206 | ND | 0.0019 | 0.00024 | 1.00 | |
| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> | | |
| 2-Fluorobiphenyl | 82 | 50-150 | | | |
| p-Terphenyl-d14 | 104 | 50-150 | | | |

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

| | | |
|------------------------------|----------------|-----------------------------|
| ANCHOR QEA, LLC | Date Received: | 11/03/14 |
| 27201 Puerta Real, Suite 350 | Work Order: | 14-11-0041 |
| Mission Viejo, CA 92691-8306 | Preparation: | EPA 3510C |
| | Method: | EPA 8270C SIM PCB Congeners |
| | Units: | ug/L |

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|----------------------|---------------------|----------------|------------------|-----------------|-----------------------|------------------|
| Method Blank | 099-16-414-15 | N/A | Aqueous | GC/MS HHH | 11/08/14 | 11/09/14 14:27 | 141108L04 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|---------------|-----------|------------|-----------|-------------------|
| PCB018 | ND | 0.0020 | 0.00042 | 1.00 | |
| PCB028 | ND | 0.0020 | 0.00066 | 1.00 | |
| PCB037 | ND | 0.0020 | 0.00048 | 1.00 | |
| PCB044 | ND | 0.0020 | 0.00078 | 1.00 | |
| PCB049 | ND | 0.0020 | 0.00078 | 1.00 | |
| PCB052 | ND | 0.0020 | 0.00051 | 1.00 | |
| PCB066 | ND | 0.0020 | 0.00057 | 1.00 | |
| PCB070 | ND | 0.0020 | 0.00038 | 1.00 | |
| PCB074 | ND | 0.0020 | 0.00043 | 1.00 | |
| PCB077 | ND | 0.0020 | 0.00065 | 1.00 | |
| PCB081 | ND | 0.0020 | 0.00048 | 1.00 | |
| PCB087 | ND | 0.0020 | 0.00050 | 1.00 | |
| PCB099 | ND | 0.0020 | 0.00060 | 1.00 | |
| PCB101 | ND | 0.0020 | 0.00058 | 1.00 | |
| PCB105 | ND | 0.0020 | 0.00038 | 1.00 | |
| PCB110 | ND | 0.0020 | 0.00050 | 1.00 | |
| PCB114 | ND | 0.0020 | 0.00044 | 1.00 | |
| PCB118 | ND | 0.0020 | 0.00049 | 1.00 | |
| PCB119 | ND | 0.0020 | 0.00043 | 1.00 | |
| PCB123 | ND | 0.0020 | 0.00077 | 1.00 | |
| PCB126 | ND | 0.0020 | 0.00055 | 1.00 | |
| PCB128 | ND | 0.0020 | 0.00070 | 1.00 | |
| PCB132/153 | ND | 0.0040 | 0.0012 | 1.00 | |
| PCB138/158 | ND | 0.0040 | 0.0011 | 1.00 | |
| PCB149 | ND | 0.0020 | 0.00050 | 1.00 | |
| PCB151 | ND | 0.0020 | 0.00061 | 1.00 | |
| PCB156 | ND | 0.0020 | 0.00051 | 1.00 | |
| PCB157 | ND | 0.0020 | 0.00075 | 1.00 | |
| PCB167 | ND | 0.0020 | 0.00087 | 1.00 | |
| PCB168 | ND | 0.0020 | 0.00033 | 1.00 | |
| PCB169 | ND | 0.0020 | 0.00056 | 1.00 | |
| PCB170 | ND | 0.0020 | 0.00056 | 1.00 | |
| PCB177 | ND | 0.0020 | 0.00057 | 1.00 | |
| PCB180 | ND | 0.0020 | 0.00072 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 11/03/14
 Work Order: 14-11-0041
 Preparation: EPA 3510C
 Method: EPA 8270C SIM PCB Congeners
 Units: ug/L

Project: GWMA - TMDL Compliance Monitoring

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| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|-----------------|-----------------------|-------------------|-----------|-------------------|
| PCB183 | ND | 0.0020 | 0.00053 | 1.00 | |
| PCB187 | ND | 0.0020 | 0.00056 | 1.00 | |
| PCB189 | ND | 0.0020 | 0.00040 | 1.00 | |
| PCB194 | ND | 0.0020 | 0.00042 | 1.00 | |
| PCB195 | ND | 0.0020 | 0.00035 | 1.00 | |
| PCB201 | ND | 0.0020 | 0.00072 | 1.00 | |
| PCB206 | ND | 0.0020 | 0.00026 | 1.00 | |
| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> | | |
| 2-Fluorobiphenyl | 72 | 50-150 | | | |
| p-Terphenyl-d14 | 78 | 50-150 | | | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Quality Control - Spike/Spike Duplicate

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 11/03/14
Work Order: 14-11-0041
Preparation: EPA 1631E Total
Method: EPA 1631E

Project: GWMA - TMDL Compliance Monitoring

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| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | MS/MSD Batch Number |
|---------------------------|------------------------|-----------|------------|---------------|----------------|---------------------|
| IB-RW-13-G-S-20141102 | Sample | Sea Water | Hg/AF 1 | 11/11/14 | 11/11/14 00:00 | 141111S02 |
| IB-RW-13-G-S-20141102 | Matrix Spike | Sea Water | Hg/AF 1 | 11/11/14 | 11/11/14 00:00 | 141111S02 |
| IB-RW-13-G-S-20141102 | Matrix Spike Duplicate | Sea Water | Hg/AF 1 | 11/11/14 | 11/11/14 00:00 | 141111S02 |

| Parameter | Sample Conc. | Spike Added | MS Conc. | MS %Rec. | MSD Conc. | MSD %Rec. | %Rec. CL | RPD | RPD CL | Qualifiers |
|-----------|--------------|-------------|----------|----------|-----------|-----------|----------|-----|--------|------------|
| Mercury | 0.001339 | 0.02000 | 0.02267 | 107 | 0.02277 | 107 | 71-125 | 0 | 0-24 | |

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RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - Spike/Spike Duplicate

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 11/03/14
Work Order: 14-11-0041
Preparation: EPA 1631E Total
Method: EPA 1631E

Project: GWMA - TMDL Compliance Monitoring

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| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | MS/MSD Batch Number |
|---------------------------|------------------------|-----------|------------|---------------|----------------|---------------------|
| OB-RW-17-G-S-20141102 | Sample | Sea Water | Hg/AF 1 | 11/11/14 | 11/11/14 00:00 | 141111S02A |
| OB-RW-17-G-S-20141102 | Matrix Spike | Sea Water | Hg/AF 1 | 11/11/14 | 11/11/14 00:00 | 141111S02A |
| OB-RW-17-G-S-20141102 | Matrix Spike Duplicate | Sea Water | Hg/AF 1 | 11/11/14 | 11/11/14 00:00 | 141111S02A |

| Parameter | Sample Conc. | Spike Added | MS Conc. | MS %Rec. | MSD Conc. | MSD %Rec. | %Rec. CL | RPD | RPD CL | Qualifiers |
|-----------|--------------|-------------|----------|----------|-----------|-----------|----------|-----|--------|------------|
| Mercury | 0.0006543 | 0.02000 | 0.02211 | 107 | 0.02220 | 108 | 71-125 | 0 | 0-24 | |

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - Spike/Spike Duplicate

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 11/03/14
Work Order: 14-11-0041
Preparation: Filtered
Method: EPA 1631E

Project: GWMA - TMDL Compliance Monitoring

Page 3 of 6

| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | MS/MSD Batch Number |
|---------------------------|------------------------|-----------|------------|---------------|----------------|---------------------|
| IB-RW-13-G-S-20141102 | Sample | Sea Water | Hg/AF 1 | 11/11/14 | 11/11/14 00:00 | 141111S01 |
| IB-RW-13-G-S-20141102 | Matrix Spike | Sea Water | Hg/AF 1 | 11/11/14 | 11/11/14 00:00 | 141111S01 |
| IB-RW-13-G-S-20141102 | Matrix Spike Duplicate | Sea Water | Hg/AF 1 | 11/11/14 | 11/11/14 00:00 | 141111S01 |

| Parameter | Sample Conc. | Spike Added | MS Conc. | MS %Rec. | MSD Conc. | MSD %Rec. | %Rec. CL | RPD | RPD CL | Qualifiers |
|-----------|--------------|-------------|----------|----------|-----------|-----------|----------|-----|--------|------------|
| Mercury | 0.0006923 | 0.02000 | 0.02179 | 105 | 0.02241 | 109 | 71-125 | 3 | 0-24 | |

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RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - Spike/Spike Duplicate

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 11/03/14
 Work Order: 14-11-0041
 Preparation: Filtered
 Method: EPA 1631E

Project: GWMA - TMDL Compliance Monitoring

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| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | MS/MSD Batch Number |
|---------------------------|------------------------|-----------|------------|---------------|----------------|---------------------|
| OB-RW-17-G-S-20141102 | Sample | Sea Water | Hg/AF 1 | 11/11/14 | 11/11/14 00:00 | 141111S01A |
| OB-RW-17-G-S-20141102 | Matrix Spike | Sea Water | Hg/AF 1 | 11/11/14 | 11/11/14 00:00 | 141111S01A |
| OB-RW-17-G-S-20141102 | Matrix Spike Duplicate | Sea Water | Hg/AF 1 | 11/11/14 | 11/11/14 00:00 | 141111S01A |

| Parameter | Sample Conc. | Spike Added | MS Conc. | MS %Rec. | MSD Conc. | MSD %Rec. | %Rec. CL | RPD | RPD CL | Qualifiers |
|-----------|--------------|-------------|----------|----------|-----------|-----------|----------|-----|--------|------------|
| Mercury | 0.0006592 | 0.02000 | 0.01806 | 87 | 0.01711 | 82 | 71-125 | 5 | 0-24 | |

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RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - Spike/Spike Duplicate

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 11/03/14
Work Order: 14-11-0041
Preparation: EPA 3005A Total
Method: EPA 1640

Project: GWMA - TMDL Compliance Monitoring

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| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | MS/MSD Batch Number | | | | |
|---------------------------|------------------------|-------------|------------|---------------|----------------|---------------------|----------|-----|--------|------------|
| OB-RW-17-G-S-20141102 | Sample | Sea Water | ICP/MS 05 | 11/08/14 | 11/09/14 20:45 | 141108S01 | | | | |
| OB-RW-17-G-S-20141102 | Matrix Spike | Sea Water | ICP/MS 05 | 11/08/14 | 11/09/14 16:36 | 141108S01 | | | | |
| OB-RW-17-G-S-20141102 | Matrix Spike Duplicate | Sea Water | ICP/MS 05 | 11/08/14 | 11/09/14 16:44 | 141108S01 | | | | |
| Parameter | Sample Conc. | Spike Added | MS Conc. | MS %Rec. | MSD Conc. | MSD %Rec. | %Rec. CL | RPD | RPD CL | Qualifiers |
| Cadmium | 0.04378 | 0.5000 | 0.5829 | 108 | 0.5883 | 109 | 50-150 | 1 | 0-20 | |
| Chromium | ND | 5.000 | 5.106 | 102 | 5.138 | 103 | 50-150 | 1 | 0-20 | |
| Copper | 0.9487 | 0.5000 | 1.630 | 136 | 1.624 | 135 | 50-150 | 0 | 0-20 | |
| Lead | 0.2001 | 0.5000 | 0.7775 | 115 | 0.7387 | 108 | 50-150 | 5 | 0-20 | |
| Zinc | 3.752 | 5.000 | 10.13 | 128 | 10.42 | 133 | 50-150 | 3 | 0-20 | |


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RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - Spike/Spike Duplicate

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 11/03/14
Work Order: 14-11-0041
Preparation: EPA 3005A Filt.
Method: EPA 1640

Project: GWMA - TMDL Compliance Monitoring

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| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | MS/MSD Batch Number |
|---------------------------|------------------------|-----------|------------|---------------|----------------|---------------------|
| OB-RW-17-G-S-20141102 | Sample | Sea Water | ICP/MS 05 | 11/08/14 | 11/09/14 20:37 | 141108S02 |
| OB-RW-17-G-S-20141102 | Matrix Spike | Sea Water | ICP/MS 05 | 11/08/14 | 11/09/14 16:20 | 141108S02 |
| OB-RW-17-G-S-20141102 | Matrix Spike Duplicate | Sea Water | ICP/MS 05 | 11/08/14 | 11/09/14 16:28 | 141108S02 |

| Parameter | Sample Conc. | Spike Added | MS Conc. | MS %Rec. | MSD Conc. | MSD %Rec. | %Rec. CL | RPD | RPD CL | Qualifiers |
|-----------|--------------|-------------|----------|----------|-----------|-----------|----------|-----|--------|------------|
| Cadmium | 0.04736 | 0.5000 | 0.5631 | 103 | 0.5579 | 102 | 50-150 | 1 | 0-20 | |
| Chromium | ND | 5.000 | 4.979 | 100 | 4.871 | 97 | 50-150 | 2 | 0-20 | |
| Copper | 0.6786 | 0.5000 | 1.218 | 108 | 1.250 | 114 | 50-150 | 3 | 0-20 | |
| Lead | ND | 0.5000 | 0.5156 | 103 | 0.4878 | 98 | 50-150 | 6 | 0-20 | |
| Zinc | 3.353 | 5.000 | 9.285 | 119 | 9.358 | 120 | 50-150 | 1 | 0-20 | |

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RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - Sample Duplicate

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 11/03/14
Work Order: 14-11-0041
Preparation: N/A
Method: SM 2540 D

Project: GWMA - TMDL Compliance Monitoring

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| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | Duplicate Batch Number |
|---------------------------|------------------|-----------|------------|----------------|----------------|------------------------|
| OA-RW-08-G-M-20141102 | Sample | Sea Water | N/A | 11/07/14 00:00 | 11/07/14 18:30 | E1107TSSD3 |
| OA-RW-08-G-M-20141102 | Sample Duplicate | Sea Water | N/A | 11/07/14 00:00 | 11/07/14 18:30 | E1107TSSD3 |

| Parameter | Sample Conc. | DUP Conc. | RPD | RPD CL | Qualifiers |
|-------------------------|--------------|-----------|-----|--------|------------|
| Solids, Total Suspended | 1.000 | 1.000 | 0 | 0-20 | |

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RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - Sample Duplicate

| | | |
|--|----------------|-------------|
| ANCHOR QEA, LLC | Date Received: | 11/03/14 |
| 27201 Puerta Real, Suite 350 | Work Order: | 14-11-0041 |
| Mission Viejo, CA 92691-8306 | Preparation: | N/A |
| | Method: | SM 2540 D |
| Project: GWMA - TMDL Compliance Monitoring | | Page 2 of 3 |

| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | Duplicate Batch Number |
|---------------------------|------------------|---------------------|------------------|----------------|----------------|------------------------|
| FH-RW-07-G-M-20141102 | Sample | Sea Water | N/A | 11/07/14 00:00 | 11/07/14 19:40 | E1107TSSD4 |
| FH-RW-07-G-M-20141102 | Sample Duplicate | Sea Water | N/A | 11/07/14 00:00 | 11/07/14 19:40 | E1107TSSD4 |
| <u>Parameter</u> | | <u>Sample Conc.</u> | <u>DUP Conc.</u> | <u>RPD</u> | <u>RPD CL</u> | <u>Qualifiers</u> |
| Solids, Total Suspended | | 2.500 | 2.600 | 4 | 0-20 | |

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RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - Sample Duplicate

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 11/03/14
Work Order: 14-11-0041
Preparation: N/A
Method: SM 2540 D

Project: GWMA - TMDL Compliance Monitoring

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| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | Duplicate Batch Number |
|---------------------------|------------------|-----------|------------|----------------|----------------|------------------------|
| IB-RW-12-G-S-20141102 | Sample | Sea Water | N/A | 11/08/14 00:00 | 11/08/14 15:20 | E1108TSSD2 |
| IB-RW-12-G-S-20141102 | Sample Duplicate | Sea Water | N/A | 11/08/14 00:00 | 11/08/14 15:20 | E1108TSSD2 |

| Parameter | Sample Conc. | DUP Conc. | RPD | RPD CL | Qualifiers |
|-------------------------|--------------|-----------|-----|--------|------------|
| Solids, Total Suspended | ND | ND | N/A | 0-20 | |

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RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - LCS/LCSD

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 11/03/14
Work Order: 14-11-0041
Preparation: N/A
Method: SM 2540 D

Project: GWMA - TMDL Compliance Monitoring

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| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | LCS/LCSD Batch Number | | | |
|---------------------------|-------------|-----------|------------|---------------|----------------|-----------------------|-----|--------|------------|
| 099-09-010-6873 | LCS | Aqueous | N/A | 11/07/14 | 11/07/14 18:30 | E1107TSSL3 | | | |
| 099-09-010-6873 | LCSD | Aqueous | N/A | 11/07/14 | 11/07/14 18:30 | E1107TSSL3 | | | |
| Parameter | Spike Added | LCS Conc. | LCS %Rec. | LCSD Conc. | LCSD %Rec. | %Rec. CL | RPD | RPD CL | Qualifiers |
| Solids, Total Suspended | 100.0 | 86.00 | 86 | 99.00 | 99 | 80-120 | 14 | 0-20 | |

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RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - LCS/LCSD

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 11/03/14
Work Order: 14-11-0041
Preparation: N/A
Method: SM 2540 D

Project: GWMA - TMDL Compliance Monitoring

Page 2 of 9

| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | LCS/LCSD Batch Number | | | |
|---------------------------|-------------|-----------|------------|---------------|----------------|-----------------------|-----|--------|------------|
| 099-09-010-6860 | LCS | Aqueous | N/A | 11/07/14 | 11/07/14 19:40 | E1107TSSL4 | | | |
| 099-09-010-6860 | LCSD | Aqueous | N/A | 11/07/14 | 11/07/14 19:40 | E1107TSSL4 | | | |
| Parameter | Spike Added | LCS Conc. | LCS %Rec. | LCSD Conc. | LCSD %Rec. | %Rec. CL | RPD | RPD CL | Qualifiers |
| Solids, Total Suspended | 100.0 | 95.00 | 95 | 101.0 | 101 | 80-120 | 6 | 0-20 | |

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RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - LCS/LCSD

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 11/03/14
Work Order: 14-11-0041
Preparation: N/A
Method: SM 2540 D

Project: GWMA - TMDL Compliance Monitoring

Page 3 of 9

| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | LCS/LCSD Batch Number | | | |
|---------------------------|-------------|-----------|------------|---------------|----------------|-----------------------|-----|--------|------------|
| 099-09-010-6872 | LCS | Aqueous | N/A | 11/08/14 | 11/08/14 15:20 | E1108TSSL2 | | | |
| 099-09-010-6872 | LCSD | Aqueous | N/A | 11/08/14 | 11/08/14 15:20 | E1108TSSL2 | | | |
| Parameter | Spike Added | LCS Conc. | LCS %Rec. | LCSD Conc. | LCSD %Rec. | %Rec. CL | RPD | RPD CL | Qualifiers |
| Solids, Total Suspended | 100.0 | 88.00 | 88 | 90.00 | 90 | 80-120 | 2 | 0-20 | |

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RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - LCS/LCSD

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 11/03/14
Work Order: 14-11-0041
Preparation: EPA 1631E Total
Method: EPA 1631E

Project: GWMA - TMDL Compliance Monitoring

Page 4 of 9

| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | LCS/LCSD Batch Number | | | |
|---------------------------|-------------|-----------|------------|---------------|----------------|-----------------------|-----|--------|------------|
| 099-15-224-63 | LCS | Aqueous | Hg/AF 1 | 11/11/14 | 11/11/14 00:00 | 141111L02 | | | |
| 099-15-224-63 | LCSD | Aqueous | Hg/AF 1 | 11/11/14 | 11/11/14 00:00 | 141111L02 | | | |
| Parameter | Spike Added | LCS Conc. | LCS %Rec. | LCSD Conc. | LCSD %Rec. | %Rec. CL | RPD | RPD CL | Qualifiers |
| Mercury | 0.02000 | 0.02071 | 104 | 0.02055 | 103 | 71-125 | 1 | 0-20 | |

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RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - LCS/LCSD

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 11/03/14
Work Order: 14-11-0041
Preparation: Filtered
Method: EPA 1631E

Project: GWMA - TMDL Compliance Monitoring

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| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | LCS/LCSD Batch Number | | | |
|---------------------------|-------------|-----------|------------|---------------|----------------|-----------------------|-----|--------|------------|
| 099-15-226-49 | LCS | Aqueous | Hg/AF 1 | 11/11/14 | 11/11/14 00:00 | 141111L01F | | | |
| 099-15-226-49 | LCSD | Aqueous | Hg/AF 1 | 11/11/14 | 11/11/14 00:00 | 141111L01F | | | |
| Parameter | Spike Added | LCS Conc. | LCS %Rec. | LCSD Conc. | LCSD %Rec. | %Rec. CL | RPD | RPD CL | Qualifiers |
| Mercury | 0.02000 | 0.01987 | 99 | 0.02034 | 102 | 71-125 | 2 | 0-20 | |

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RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - LCS/LCSD

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 11/03/14
Work Order: 14-11-0041
Preparation: EPA 3005A Total
Method: EPA 1640

Project: GWMA - TMDL Compliance Monitoring

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| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | LCS/LCSD Batch Number | | | |
|---------------------------|-------------|-----------|------------|---------------|----------------|-----------------------|-----|--------|------------|
| 099-13-067-463 | LCS | Aqueous | ICP/MS 05 | 11/08/14 | 11/09/14 15:24 | 141108L01 | | | |
| 099-13-067-463 | LCSD | Aqueous | ICP/MS 05 | 11/08/14 | 11/09/14 15:32 | 141108L01 | | | |
| Parameter | Spike Added | LCS Conc. | LCS %Rec. | LCSD Conc. | LCSD %Rec. | %Rec. CL | RPD | RPD CL | Qualifiers |
| Cadmium | 0.5000 | 0.4894 | 98 | 0.4865 | 97 | 70-130 | 1 | 0-20 | |
| Chromium | 5.000 | 5.058 | 101 | 5.094 | 102 | 70-130 | 1 | 0-20 | |
| Copper | 0.5000 | 0.4956 | 99 | 0.5204 | 104 | 70-130 | 5 | 0-20 | |
| Lead | 0.5000 | 0.4980 | 100 | 0.4712 | 94 | 70-130 | 6 | 0-20 | |
| Zinc | 5.000 | 5.309 | 106 | 5.416 | 108 | 70-130 | 2 | 0-20 | |

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - LCS/LCSD

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 11/03/14
Work Order: 14-11-0041
Preparation: EPA 3005A Filt.
Method: EPA 1640

Project: GWMA - TMDL Compliance Monitoring

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| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | LCS/LCSD Batch Number |
|---------------------------|------|---------|------------|---------------|----------------|-----------------------|
| 099-15-823-119 | LCS | Aqueous | ICP/MS 05 | 11/08/14 | 11/09/14 15:40 | 141108L02F |
| 099-15-823-119 | LCSD | Aqueous | ICP/MS 05 | 11/08/14 | 11/09/14 15:48 | 141108L02F |

| Parameter | Spike Added | LCS Conc. | LCS %Rec. | LCSD Conc. | LCSD %Rec. | %Rec. CL | RPD | RPD CL | Qualifiers |
|-----------|-------------|-----------|-----------|------------|------------|----------|-----|--------|------------|
| Cadmium | 0.5000 | 0.4879 | 98 | 0.4994 | 100 | 70-130 | 2 | 0-20 | |
| Chromium | 5.000 | 5.343 | 107 | 5.107 | 102 | 70-130 | 5 | 0-20 | |
| Copper | 0.5000 | 0.5078 | 102 | 0.5232 | 105 | 70-130 | 3 | 0-20 | |
| Lead | 0.5000 | 0.4846 | 97 | 0.4937 | 99 | 70-130 | 2 | 0-20 | |
| Zinc | 5.000 | 5.471 | 109 | 5.560 | 111 | 70-130 | 2 | 0-20 | |

RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - LCS/LCSD

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 11/03/14
Work Order: 14-11-0041
Preparation: EPA 3510C
Method: EPA 8081A

Project: GWMA - TMDL Compliance Monitoring

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| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | LCS/LCSD Batch Number | | | |
|---------------------------|-------------|-----------|------------|---------------|----------------|-----------------------|-----|--------|------------|
| 099-16-036-12 | LCS | Aqueous | GC 44 | 11/07/14 | 11/07/14 18:01 | 141107L05 | | | |
| 099-16-036-12 | LCSD | Aqueous | GC 44 | 11/07/14 | 11/07/14 18:15 | 141107L05 | | | |
| Parameter | Spike Added | LCS Conc. | LCS %Rec. | LCSD Conc. | LCSD %Rec. | %Rec. CL | RPD | RPD CL | Qualifiers |
| 4,4'-DDD | 50.00 | 49.31 | 99 | 50.27 | 101 | 50-150 | 2 | 0-25 | |
| 4,4'-DDE | 50.00 | 52.60 | 105 | 51.77 | 104 | 50-150 | 2 | 0-25 | |
| 4,4'-DDT | 50.00 | 50.16 | 100 | 49.52 | 99 | 50-150 | 1 | 0-25 | |
| Alpha Chlordane | 50.00 | 50.70 | 101 | 50.54 | 101 | 50-150 | 0 | 0-25 | |
| Dieldrin | 50.00 | 52.01 | 104 | 51.54 | 103 | 50-150 | 1 | 0-25 | |
| Gamma Chlordane | 50.00 | 49.89 | 100 | 49.81 | 100 | 50-150 | 0 | 0-25 | |

RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - LCS/LCSD

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 11/03/14
Work Order: 14-11-0041
Preparation: EPA 3510C
Method: EPA 8270C SIM PCB Congeners

Project: GWMA - TMDL Compliance Monitoring

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| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | LCS/LCSD Batch Number | | | | |
|---------------------------|-------------|-----------|------------|---------------|----------------|-----------------------|--------|-----|--------|------------|
| 099-16-414-15 | LCS | Aqueous | GC/MS HHH | 11/08/14 | 11/09/14 11:48 | 141108L04 | | | | |
| 099-16-414-15 | LCSD | Aqueous | GC/MS HHH | 11/08/14 | 11/09/14 12:15 | 141108L04 | | | | |
| Parameter | Spike Added | LCS Conc. | LCS %Rec. | LCSD Conc. | LCSD %Rec. | %Rec. CL | ME CL | RPD | RPD CL | Qualifiers |
| PCB018 | 0.5000 | 0.4969 | 99 | 0.5036 | 101 | 50-150 | 33-167 | 1 | 0-25 | |
| PCB028 | 0.5000 | 0.5249 | 105 | 0.5321 | 106 | 50-150 | 33-167 | 1 | 0-25 | |
| PCB044 | 0.5000 | 0.5146 | 103 | 0.5242 | 105 | 50-150 | 33-167 | 2 | 0-25 | |
| PCB052 | 0.5000 | 0.4530 | 91 | 0.4615 | 92 | 50-150 | 33-167 | 2 | 0-25 | |
| PCB066 | 0.5000 | 0.5661 | 113 | 0.5676 | 114 | 50-150 | 33-167 | 0 | 0-25 | |
| PCB077 | 0.5000 | 0.5604 | 112 | 0.5719 | 114 | 50-150 | 33-167 | 2 | 0-25 | |
| PCB101 | 0.5000 | 0.4910 | 98 | 0.4933 | 99 | 50-150 | 33-167 | 0 | 0-25 | |
| PCB105 | 0.5000 | 0.5504 | 110 | 0.5475 | 110 | 50-150 | 33-167 | 1 | 0-25 | |
| PCB118 | 0.5000 | 0.5617 | 112 | 0.5603 | 112 | 50-150 | 33-167 | 0 | 0-25 | |
| PCB126 | 0.5000 | 0.5434 | 109 | 0.5470 | 109 | 50-150 | 33-167 | 1 | 0-25 | |
| PCB128 | 0.5000 | 0.4759 | 95 | 0.4740 | 95 | 50-150 | 33-167 | 0 | 0-25 | |
| PCB170 | 0.5000 | 0.4334 | 87 | 0.4428 | 89 | 50-150 | 33-167 | 2 | 0-25 | |
| PCB180 | 0.5000 | 0.4870 | 97 | 0.4939 | 99 | 50-150 | 33-167 | 1 | 0-25 | |
| PCB187 | 0.5000 | 0.4830 | 97 | 0.4795 | 96 | 50-150 | 33-167 | 1 | 0-25 | |
| PCB195 | 0.5000 | 0.5384 | 108 | 0.5373 | 107 | 50-150 | 33-167 | 0 | 0-25 | |
| PCB206 | 0.5000 | 0.4797 | 96 | 0.4790 | 96 | 50-150 | 33-167 | 0 | 0-25 | |

Total number of LCS compounds: 16

Total number of ME compounds: 0

Total number of ME compounds allowed: 1

LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

Glossary of Terms and Qualifiers

Work Order: 14-11-0041

Page 1 of 1

| <u>Qualifiers</u> | <u>Definition</u> |
|-------------------|--|
| * | See applicable analysis comment. |
| < | Less than the indicated value. |
| > | Greater than the indicated value. |
| 1 | Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification. |
| 2 | Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification. |
| 3 | Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control. |
| 4 | The MS/MSD RPD was out of control due to suspected matrix interference. |
| 5 | The PDS/PDS or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference. |
| 6 | Surrogate recovery below the acceptance limit. |
| 7 | Surrogate recovery above the acceptance limit. |
| B | Analyte was present in the associated method blank. |
| BU | Sample analyzed after holding time expired. |
| BV | Sample received after holding time expired. |
| E | Concentration exceeds the calibration range. |
| ET | Sample was extracted past end of recommended max. holding time. |
| HD | The chromatographic pattern was inconsistent with the profile of the reference fuel standard. |
| HDH | The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected). |
| HDL | The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected). |
| J | Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated. |
| JA | Analyte positively identified but quantitation is an estimate. |
| ME | LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean). |
| ND | Parameter not detected at the indicated reporting limit. |
| Q | Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater. |
| SG | The sample extract was subjected to Silica Gel treatment prior to analysis. |
| X | % Recovery and/or RPD out-of-range. |
| Z | Analyte presence was not confirmed by second column or GC/MS analysis. |

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

Chain of Custody Record & Laboratory Analysis Request

Laboratory Number:

Date: 11.2.14

Project Name: GWMA-TMDL Compliance Monitoring

Project Number: 141205-01.01

Project Manager: Andy Martin

Phone Number: (949) 334 9630

Shipment Method: Courier

Parameters



14-11-0041

| Line | Field Sample ID | Collection Date/Time | Matrix | No. of Containers | Parameters | | | | | Comments/Preservation | |
|------|-------------------------|----------------------|--------|-------------------|------------|----------------------------|-----------------------------|---------------------------|---------------|-----------------------|----|
| | | | | | TSS | Total and dissolved metals | Total and dissolved mercury | Organochlorine pesticides | PCB Congeners | | |
| 1 | IB-RW-12-G-S-20141102 | 11.2.14/0845 | WAT | 8 | X | X | X | X | X | | 1 |
| 2 | IB-RW-12-G-M-20141102 | 1035 | | 1 | X | | | | | | 2 |
| 3 | IB-RW-1012-G-M-20141102 | 1040 ⁰⁹⁵⁵ | | 1 | X | | | | | | 3 |
| 4 | IB-RW-12-G-B-20141102 | 1040 | | 1 | X | | | | | | 4 |
| 5 | IB-RW-13-G-S-20141102 | 1105 | | 9 | X | X | X | X | X | | 5 |
| 6 | IB-RW-13-G-M-20141102 | 1110 | | 1 | X | | | | | | 6 |
| 7 | IB-RW-13-G-B-20141102 | 1115 | | 1 | X | | | | | | 7 |
| 8 | IB-RW-14-G-S-20141102 | 1150 | | 8 | X | X | X | X | X | | 8 |
| 9 | IB-RW-14-G-M-20141102 | 1155 | | 1 | X | | | | | | 9 |
| 10 | IB-RW-14-G-B-20141102 | 1200 | | 1 | X | | | | | | 10 |
| 11 | IB-RW-15-G-S-20141102 | 1230 | | 8 | X | X | X | X | X | | 11 |
| 12 | IB-RW-15-G-M-20141102 | 1235 | | 1 | X | | | | | | 12 |
| 13 | IB-RW-15-G-B-20141102 | 1240 | | 1 | X | | | | | | 13 |
| 14 | OB-RW-17-G-S-20141102 | 1325 | | 10 | X | X | X | X | X | | 14 |
| 15 | OB-RW-17-G-M-20141102 | 1335 | | 1 | X | | | | | | 15 |

Notes:


Relinquished By: BG Britt Geisler Company: Anchor OEA
 Signature/Printed Name Date/Time 11.3.14 10955

Received By: [Signature] Company: ECL
 Signature/Printed Name Date/Time 11.3.14 10955

Relinquished By: [Signature] Noel Guise Company: ECL
 Signature/Printed Name Date/Time 11.03.14 1100

Received By: [Signature] J. Patel Company: ECL
 Signature/Printed Name Date/Time 11/3/14 1100

Chain of Custody Record & Laboratory Analysis Request

| Laboratory Number: | | | | No. of Containers | Parameters | | | | | | | | | | | | | |  14-11-0041 | | | | | | | | | | | | | | | | |
|--|-----------------------|----------------------|--------|-------------------|------------|----------------------------|-----------------------------|---------------------------|---------------|--|--|--|--|--|--|--|--|--|---|--|--|--|--|--|--|--|--|--|-----------------------|--|--|--|--|--|--|
| Date: | | | | | TSS | Total and dissolved metals | Total and dissolved mercury | Organochlorine pesticides | PCB Congeners | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Project Name: GWMA-TMDL Compliance Monitoring | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Project Number: 141205-01.01 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Project Manager: Andy Martin | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Phone Number: (949) 334 9630 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Shipment Method: Courier | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Line | Field Sample ID | Collection Date/Time | Matrix | No. of Containers | TSS | Total and dissolved metals | Total and dissolved mercury | Organochlorine pesticides | PCB Congeners | | | | | | | | | | | | | | | | | | | | Comments/Preservation | | | | | | |
| 1 | OB-RW-17-G-B-20141102 | 11.2.14/1340 | WAT | 1 | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | OB-RW-16-G-S-20141102 | 1410 | | 8 | X | X | X | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | OB-RW-16-G-M-20141102 | 1415 | | 1 | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | OB-RW-16-G-B-20141102 | 1420 | | 1 | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | OA-RW-08-G-S-20141102 | 1456 | | 8 | X | X | X | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | OA-RW-08-G-M-20141102 | 1455 | | 1 | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | OA-RW-08-G-B-20141102 | 1500 | | 1 | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | OA-RW-09-G-S-20141102 | 1520 | | 8 | X | X | X | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | OA-RW-09-G-M-20141102 | 1525 | | 1 | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | OA-RW-09-G-B-20141102 | 1530 | | 1 | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Notes:


Relinquished By: Britt Geisler Company: ANCHOR OEA
 Signature/Printed Name: Britt Geisler Date/Time: 11.3.14 / 0955

Received By: [Signature] Company: ECL
 Signature/Printed Name: [Signature] Date/Time: 11.3.14 / 0955

Relinquished By: [Signature] Company: ECL
 Signature/Printed Name: Noel Cruz Date/Time: 11.03.14 1100

Received By: [Signature] Company: ECL
 Signature/Printed Name: S. PATEL Date/Time: 11/3/14 1100

Chain of Custody Record & Laboratory Analysis Request

| Laboratory Number: | | | | No. of Containers | Parameters | | | | | | | | | | | |  14-11-0041 | | | | | |
|---|-----------------------|----------------------|--------|-------------------|------------|----------------------------|-----------------------------|---------------------------|---------------|--|--|--|--|--|--|--|---|--|--|--|--|-----------------------|
| Date: 11.2.14 | | | | | TSS | Total and dissolved metals | Total and dissolved mercury | Organochlorine pesticides | PCB Congeners | | | | | | | | | | | | | |
| Project Name: GWMA-TMDL Compliance Monitoring | | | | | | | | | | | | | | | | | | | | | | |
| Project Number: 141205-01.01 | | | | | | | | | | | | | | | | | | | | | | |
| Project Manager: Andy Martin | | | | | | | | | | | | | | | | | | | | | | |
| Phone Number: (949) 334 9630 | | | | | | | | | | | | | | | | | | | | | | |
| Shipment Method: Courier | | | | | | | | | | | | | | | | | | | | | | |
| Line | Field Sample ID | Collection Date/Time | Matrix | No. of Containers | TSS | Total and dissolved metals | Total and dissolved mercury | Organochlorine pesticides | PCB Congeners | | | | | | | | | | | | | Comments/Preservation |
| 1 | CS-RW-01-G-S-20141102 | 11.2.14/0852 | WAT | 8 | X | X | X | X | X | | | | | | | | | | | | | |
| 2 | CS-RW-01-G-M-20141102 | 0908 | | 1 | X | | | | | | | | | | | | | | | | | |
| 3 | CS-RW-01-G-B-20141102 | 0912 | | 1 | X | | | | | | | | | | | | | | | | | |
| 4 | IA-RW-02-G-S-20141102 | 0956 | | 8 | X | X | X | X | X | | | | | | | | | | | | | |
| 5 | IA-RW-02-G-M-20141102 | 0957 | | 1 | X | | | | | | | | | | | | | | | | | |
| 6 | IA-RW-02-G-B-20141102 | 0958 | | 1 | X | | | | | | | | | | | | | | | | | |
| 7 | IA-RW-03-G-S-20141102 | 1038 | | 8 | X | X | X | X | X | | | | | | | | | | | | | |
| 8 | IA-RW-03-G-M-20141102 | 1040 | | 1 | X | | | | | | | | | | | | | | | | | |
| 9 | IA-RW-03-G-B-20141102 | 1041 | | 1 | X | | | | | | | | | | | | | | | | | |
| 10 | IA-RW-04-G-S-20141102 | 1113 | | 8 | X | X | X | X | X | | | | | | | | | | | | | |
| 11 | IA-RW-04-G-S-20141102 | 1113 | | 1 | X | | | | | | | | | | | | | | | | | |
| 12 | IA-RW-04-G-M-20141102 | 1114 | | 1 | X | | | | | | | | | | | | | | | | | |
| 13 | IA-RW-04-G-B-20141102 | 1114 | | 1 | X | | | | | | | | | | | | | | | | | |
| 14 | IA-RW-06-G-S-20141102 | 1206 | | 8 | X | X | X | X | X | | | | | | | | | | | | | |
| 15 | IA-RW-06-G-M-20141102 | 1207 | | 1 | X | | | | | | | | | | | | | | | | | |

Notes:

| | |
|-------------------------|---------------------|
| Relinquished By: | Company: Anchor OEA |
| <i>BB</i> Britt Geisler | 11.3.14 / 0955 |
| Signature/Printed Name | Date/Time |

| | |
|------------------------|----------------|
| Received By: | Company: ECI |
| <i>[Signature]</i> | 11.3.14 / 0955 |
| Signature/Printed Name | Date/Time |

| | |
|------------------------------|---------------|
| Relinquished By: | Company: ECI |
| <i>[Signature]</i> Noel Grue | 11.03.14 1100 |
| Signature/Printed Name | Date/Time |

| | |
|------------------------|--------------|
| Received By: | Company: ECI |
| <i>[Signature]</i> | 11/3/14 1100 |
| Signature/Printed Name | Date/Time |

Chain of Custody Record & Laboratory Analysis Request

| | | |
|--|------------|--|
| Laboratory Number: Date: <u>11.2.14</u> Project Name: <u>GWMA-TMDL Compliance Monitoring</u> Project Number: <u>141205-01.01</u> Project Manager: <u>Andy Martin</u> Phone Number: <u>(949) 334 9630</u> Shipment Method: <u>Courier</u> | Parameters | |
|--|------------|--|



14-11-0041

| Line | Field Sample ID | Collection Date/Time | Matrix | No. of Containers | TSS | Total and dissolved metals | Total and dissolved mercury | Organochlorine pesticides | PCB Congeners | Parameters | Comments/Preservation |
|------|-----------------------|----------------------|--------|-------------------|-----|----------------------------|-----------------------------|---------------------------|---------------|------------|-----------------------|
| 1 | IA-RW-06-G-B-20141102 | 11.2.14 / 1208 | WAT | 1 | X | | | | | 41 | |
| 2 | IA-RW-05-G-S-20141102 | 1250 | | 8 | X | X | X | X | X | 42 | |
| 3 | IA-RW-05-G-M-20141102 | 1251 | | 1 | X | | | | | 43 | |
| 4 | IA-RW-05-G-B-20141102 | 1252 | | 1 | X | | | | | 44 | |
| 5 | FH-RW-07-G-S-20141102 | 1338 | | 8 | X | X | X | X | X | 45 | |
| 6 | FH-RW-07-G-M-20141102 | 1338 | | 2 | X | | | | | 46 | |
| 7 | FH-RW-07-G-B-20141102 | 1340 | | 1 | X | | | | | 47 | |
| 8 | CM-RW-10-G-S-20141102 | 1452 | | 8 | X | X | X | X | X | 48 | |
| 9 | CM-RW-10-G-M-20141102 | 1455 | | 1 | X | | | | | 49 | |
| 10 | CM-RW-10-G-B-20141102 | 1456 | | 1 | X | | | | | 50 | |
| 11 | FB-20141102 | 1515 | | 4 | | X | X | | | 51 | |
| 12 | CB-RW-11-G-S-20141102 | 1533 | | 8 | X | X | X | X | X | 52 | |
| 13 | CB-RW-11-G-M-20141102 | 1534 | | 1 | X | | | | | 53 | |
| 14 | CB-RW-11-G-B-20141102 | ↓ 1534 ↓ | | 1 | X | | | | | 54 | |
| 15 | | | | | | | | | | | |

Notes:

| | | |
|--|----------------------------|-----------------------------------|
| Relinquished By: <u>BG Britt Geisler</u> Signature/Printed Name | Company: <u>Anchor OEA</u> | Date/Time: <u>11.3.14 / 1095T</u> |
|--|----------------------------|-----------------------------------|

| | | |
|---|---------------------|-----------------------------------|
| Received By: <u>[Signature]</u> Signature/Printed Name | Company: <u>ECI</u> | Date/Time: <u>11-3-14 / 1095T</u> |
|---|---------------------|-----------------------------------|

| | | |
|---|---------------------|---------------------------------|
| Relinquished By: <u>[Signature] Neal Gunn</u> Signature/Printed Name | Company: <u>ECI</u> | Date/Time: <u>11.03.14 1100</u> |
|---|---------------------|---------------------------------|

| | | |
|---|---------------------|--------------------------------|
| Received By: <u>[Signature]</u> Signature/Printed Name | Company: <u>ECI</u> | Date/Time: <u>11/3/14 1100</u> |
|---|---------------------|--------------------------------|

Calscience

WORK ORDER #: **14-11-0041**

SAMPLE RECEIPT FORM

Cooler 1 of 4

CLIENT: Anchor

DATE: 11/03/14

TEMPERATURE: Thermometer ID: SC2 (Criteria: 0.0 °C – 6.0 °C, not frozen except sediment/tissue)

Temperature 2.2 °C - 0.2 °C (CF) = 2.0 °C Blank Sample

Sample(s) outside temperature criteria (PM/APM contacted by: _____)

Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: Air Filter

Checked by: 300

CUSTODY SEALS INTACT:

Cooler _____ No (Not Intact) Not Present N/A Checked by: 300

Sample _____ No (Not Intact) Not Present Checked by: 802

SAMPLE CONDITION:

| | Yes | No | N/A |
|---|-------------------------------------|--------------------------|-------------------------------------|
| Chain-Of-Custody (COC) document(s) received with samples..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| COC document(s) received complete..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> Collection date/time, matrix, and/or # of containers logged in based on sample labels. | | | |
| <input type="checkbox"/> No analysis requested. <input type="checkbox"/> Not relinquished. <input type="checkbox"/> No date/time relinquished. | | | |
| Sampler's name indicated on COC..... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Sample container label(s) consistent with COC..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Sample container(s) intact and good condition..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Proper containers and sufficient volume for analyses requested..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Analyses received within holding time..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Aqueous samples received within 15-minute holding time | | | |
| <input type="checkbox"/> pH <input type="checkbox"/> Residual Chlorine <input type="checkbox"/> Dissolved Sulfides <input type="checkbox"/> Dissolved Oxygen..... | | | |
| <input type="checkbox"/> _____ | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Proper preservation noted on COC or sample container..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> Unpreserved vials received for Volatiles analysis | | | |
| Volatile analysis container(s) free of headspace..... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Tedlar bag(s) free of condensation..... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

CONTAINER TYPE:

Solid: 4ozCGJ 8ozCGJ 16ozCGJ Sleeve (____) EnCores® TerraCores® _____

Aqueous: VOA VOA_h VOAn₂ 125AGB 125AGB_h 125AGB_p 1AGB 1AGBna₂ 1AGBs

500AGB 500AGJ 500AGJs 250AGB 250CGB 250CGBs 1PB 1PBna 500PB

250PB 250PBn 125PB 125PBz_{nna} 100PJ 100PJna₂ _____ _____ _____

Air: Tedlar® Canister **Other:** _____ **Trip Blank Lot#:** _____ **Labeled/Checked by:** 802

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope **Reviewed by:** 659

Preservative: h: HCL n: HNO₃ na₂: Na₂S₂O₃ na: NaOH p: H₃PO₄ s: H₂SO₄ u: Ultra-pure z_{nna}: ZnAc₂+NaOH f: Filtered **Scanned by:** 659

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Calscience

WORK ORDER #: **14-11-0041**

SAMPLE RECEIPT FORM

Cooler 2 of 4

CLIENT: Anchor

DATE: 11/03/14

TEMPERATURE: Thermometer ID: SC2 (Criteria: 0.0 °C – 6.0 °C, not frozen except sediment/tissue)

Temperature 2.9 °C - 0.2 °C (CF) = 2.7 °C Blank Sample

Sample(s) outside temperature criteria (PM/APM contacted by: _____)

Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: Air Filter

Checked by: 300

CUSTODY SEALS INTACT:

Cooler _____ No (Not Intact) Not Present N/A

Sample _____ No (Not Intact) Not Present

Checked by: 300

Checked by: 802

SAMPLE CONDITION:

| | Yes | No | N/A |
|---|-------------------------------------|--------------------------|-------------------------------------|
| Chain-Of-Custody (COC) document(s) received with samples..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| COC document(s) received complete..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> Collection date/time, matrix, and/or # of containers logged in based on sample labels. | | | |
| <input type="checkbox"/> No analysis requested. <input type="checkbox"/> Not relinquished. <input type="checkbox"/> No date/time relinquished. | | | |
| Sampler's name indicated on COC..... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Sample container label(s) consistent with COC..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Sample container(s) intact and good condition..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Proper containers and sufficient volume for analyses requested..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Analyses received within holding time..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Aqueous samples received within 15-minute holding time | | | |
| <input type="checkbox"/> pH <input type="checkbox"/> Residual Chlorine <input type="checkbox"/> Dissolved Sulfides <input type="checkbox"/> Dissolved Oxygen..... | | | |
| Proper preservation noted on COC or sample container..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> Unpreserved vials received for Volatiles analysis | | | |
| Volatile analysis container(s) free of headspace..... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Tedlar bag(s) free of condensation..... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

CONTAINER TYPE:

Solid: 4ozCGJ 8ozCGJ 16ozCGJ Sleeve (____) EnCores® TerraCores® _____

Aqueous: VOA VOA_h VOA_{na2} 125AGB 125AGB_h 125AGB_p 1AGB 1AGB_{na2} 1AGB_s

500AGB 500AGJ 500AGJ_s 250AGB 250CGB 250CGB_s 1PB 1PB_{na} 500PB

250PB 250PB_n 125PB 125PB_z 100PJ 100PJ_{na2} _____ _____ _____

Air: Tedlar® Canister **Other:** _____ **Trip Blank Lot#:** _____ **Labeled/Checked by:** 802

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope **Reviewed by:** 657

Preservative: h: HCL n: HNO₃ na₂: Na₂S₂O₃ na: NaOH p: H₃PO₄ s: H₂SO₄ u: Ultra-pure z_{na}: ZnAc₂+NaOH f: Filtered **Scanned by:** 657

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SAMPLE RECEIPT FORM

Cooler 3 of 4

CLIENT: Anchor

DATE: 11/03/14

TEMPERATURE: Thermometer ID: SC2 (Criteria: 0.0 °C – 6.0 °C, not frozen except sediment/tissue)

Temperature 3.1 °C - 0.2 °C (CF) = 2.9 °C Blank Sample

Sample(s) outside temperature criteria (PM/APM contacted by: _____)

Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: Air Filter

Checked by: 300

CUSTODY SEALS INTACT:

Cooler _____ No (Not Intact) Not Present N/A

Sample _____ No (Not Intact) Not Present

Checked by: 300

Checked by: 802

SAMPLE CONDITION:

| | Yes | No | N/A |
|---|-------------------------------------|--------------------------|-------------------------------------|
| Chain-Of-Custody (COC) document(s) received with samples..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| COC document(s) received complete..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> Collection date/time, matrix, and/or # of containers logged in based on sample labels. | | | |
| <input type="checkbox"/> No analysis requested. <input type="checkbox"/> Not relinquished. <input type="checkbox"/> No date/time relinquished. | | | |
| Sampler's name indicated on COC..... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Sample container label(s) consistent with COC..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Sample container(s) intact and good condition..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Proper containers and sufficient volume for analyses requested..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Analyses received within holding time..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Aqueous samples received within 15-minute holding time | | | |
| <input type="checkbox"/> pH <input type="checkbox"/> Residual Chlorine <input type="checkbox"/> Dissolved Sulfides <input type="checkbox"/> Dissolved Oxygen..... | | | |
| Proper preservation noted on COC or sample container..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> Unpreserved vials received for Volatiles analysis | | | |
| Volatile analysis container(s) free of headspace..... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Tedlar bag(s) free of condensation..... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

CONTAINER TYPE:

Solid: 4ozCGJ 8ozCGJ 16ozCGJ Sleeve (____) EnCores® TerraCores® _____

Aqueous: VOA VOA_h VOA_{na2} 125AGB 125AGB_h 125AGB_p 1AGB 1AGB_{na2} 1AGB_s

500AGB 500AGJ 500AGJ_s 250AGB 250CGB 250CGB_s 1PB 1PB_{na} 500PB

250PB 250PB_n 125PB 125PB_z 100PJ 100PJ_{na2} _____ _____ _____

Air: Tedlar® Canister **Other:** _____ **Trip Blank Lot#:** _____ **Labeled/Checked by:** 802

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope **Reviewed by:** 607

Preservative: h: HCL n: HNO₃ na₂: Na₂S₂O₃ na: NaOH p: H₃PO₄ s: H₂SO₄ u: Ultra-pure z_{na}: ZnAc₂+NaOH f: Filtered **Scanned by:** 607

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Calscience

WORK ORDER #: **14-11-0041**

SAMPLE RECEIPT FORM

Cooler 4 of 4

CLIENT: Anchor

DATE: 11/03/14

TEMPERATURE: Thermometer ID: SC2 (Criteria: 0.0 °C – 6.0 °C, not frozen except sediment/tissue)

Temperature 2.5 °C - 0.2 °C (CF) = 2.3 °C Blank Sample

Sample(s) outside temperature criteria (PM/APM contacted by: _____)

Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: Air Filter

Checked by: 300

CUSTODY SEALS INTACT:

Cooler _____ No (Not Intact) Not Present N/A Checked by: 300

Sample _____ No (Not Intact) Not Present Checked by: 802

SAMPLE CONDITION:

| | Yes | No | N/A |
|---|-------------------------------------|--------------------------|-------------------------------------|
| Chain-Of-Custody (COC) document(s) received with samples..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| COC document(s) received complete..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> Collection date/time, matrix, and/or # of containers logged in based on sample labels. | | | |
| <input type="checkbox"/> No analysis requested. <input type="checkbox"/> Not relinquished. <input type="checkbox"/> No date/time relinquished. | | | |
| Sampler's name indicated on COC..... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Sample container label(s) consistent with COC..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Sample container(s) intact and good condition..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Proper containers and sufficient volume for analyses requested..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Analyses received within holding time..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Aqueous samples received within 15-minute holding time | | | |
| <input type="checkbox"/> pH <input type="checkbox"/> Residual Chlorine <input type="checkbox"/> Dissolved Sulfides <input type="checkbox"/> Dissolved Oxygen..... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Proper preservation noted on COC or sample container..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> Unpreserved vials received for Volatiles analysis | | | |
| Volatile analysis container(s) free of headspace..... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Tedlar bag(s) free of condensation..... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

CONTAINER TYPE:

Solid: 4ozCGJ 8ozCGJ 16ozCGJ Sleeve (____) EnCores® TerraCores® _____

Aqueous: VOA VOAh VOAna₂ 125AGB 125AGBh 125AGBp 1AGB 1AGBna₂ 1AGBs

500AGB 500AGJ 500AGJs 250AGB 250CGB 250CGBs 1PB 1PBna 500PB

250PB 250PBn 125PB 125PBz₂na 100PJ 100PJna₂ _____ _____ _____

Air: Tedlar® Canister **Other:** _____ **Trip Blank Lot#:** _____ **Labeled/Checked by:** 802

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope **Reviewed by:** 802

Preservative: h: HCL n: HNO₃ na₂: Na₂S₂O₃ na: NaOH p: H₃PO₄ s: H₂SO₄ u: Ultra-pure z₂na: ZnAc₂+NaOH f: Filtered **Scanned by:** 802

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APPENDIX B-2
SEDIMENT SAMPLE CHEMISTRY
REPORTS

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1.0 INTRODUCTION

The Port of Los Angeles (POLA) and the Port of Long Beach ([POLB] herein referred to as the Ports) jointly participated in monitoring requirements in support of the Dominguez Channel, Greater Los Angeles and Long Beach Harbor Waters Toxic Pollutants Total Maximum Daily Load (TMDL), State Water Resources Control Board (SWRCB) Resolution No. R11-008 (referred to as the “Harbor Toxics TMDL”). Monitoring requirements in support of the TMDL in 2013 were fulfilled by the Ports through participation with the region-wide Bight '13 monitoring efforts coordinated by the Southern California Coastal Water Research Project (SCCWRP). Program management and sample collection for the Ports was performed by AMEC Environment & Infrastructure, Inc. (AMEC).

AMEC has partnered with Nautilus Environmental (Nautilus) to perform sediment toxicity testing as part of the Harbor Toxics TMDL program. Since the Harbor Toxics TMDL program coincided with the Southern California Bight 2013 Regional Marine Monitoring Survey (Bight'13), in addition to standard USEPA testing protocols, specific testing guidelines provided by SCCWRP for Bight'13 were followed for this testing event (SCCWRP 2013). Furthermore, toxicology and analytical laboratories were required to participate in laboratory intercalibration testing to ensure standard practices between labs and comparability of data generated throughout the region. Nautilus passed intercalibration testing for all Bight '13 toxicity tests conducted. This report summarizes results of the July 2013 sampling events.

Thirty sediment samples were collected throughout the two Ports and were evaluated using two test methods. These included a:

- 10-Day amphipod (*Eohaustorius estuarius*) solid-phase sediment test, and
- 48-hour mussel (*Mytilus galloprovincialis*) larval survival and development sediment-water interface test

2.0 MATERIALS AND METHODS

The methods employed to evaluate sediment toxicity are described below.

2.1 Sample Collection, Receipt, and Preparation

Test site sediments for the Harbor Toxics TMDL program were collected between July 10, 2013 and July 13, 2013 by AMEC personnel. Approximately five liters of sediment were provided from each site, in five one-liter (L) high density polyethylene plastic containers. Samples were delivered in coolers with wet ice to Nautilus by AMEC personnel from July 11, 2013 through July 13, 2013. Upon receipt, contents of coolers were verified against chain of custody forms. Temperatures were measured and recorded on a sample check-in form. All samples were stored at $4 \pm 2^{\circ}\text{C}$ in the dark until used for testing. Copies of chain of custody forms and sample check-in data sheets are provided in Appendix A.

For the entire testing program, each sample was sieved through a 1-mm Nitex® mesh screen prior to testing to remove potential native organisms and ensure reliable test organism recovery. Following homogenization and sieving, interstitial pore water samples were collected and

analyzed for total ammonia content. Prior to testing, each sample was thoroughly homogenized.

2.2 Toxicity Test Methodology

Test methods and acceptability criteria for the amphipod test and the mussel test are described in Tables 1 and 2, respectively. Additional guidance for the regional program was developed by SCCWRP in collaboration with participating laboratories, and is outlined in the *Bight '13 Toxicity Testing Manual* (SCCWRP 2013).

The solid-phase amphipod tests included two concurrent controls. The laboratory control sediment consisted of coarse sand collected at the amphipod collection site along with each batch of organisms. The amphipod collection site is composed mostly of sand, with minimal silt and clay fractions. Thus, an additional “fine grain size” control sediment was tested to better represent the common fine sediments found within bays and harbors. The fine grain size control sediment was collected in the Sail Bay area of Mission Bay in San Diego, California, which is a relatively contaminant free area with no power boats or large marinas, and this sediment has been used as a fine-grain control at Nautilus for several years. One large batch of fine grain sediment was collected by AMEC on July 9, 2013 and distributed to all participating laboratories for testing throughout the Bight '13 program.

Table 1. Toxicity Test Methodology and QA/QC Requirements for the 10-day Solid Phase Amphipod Toxicity Test

| | |
|----------------------------------|--|
| Test organism | Marine Amphipod – <i>Eohaustorius estuarius</i> |
| Test organism source | Northwestern Aquatic Sciences; Newport, OR |
| Test organism size at initiation | 3-5 mm |
| Test duration; endpoint | 10 days; survival |
| Test solution renewal | None |
| Feeding | Prior to test initiation only |
| Test chamber | 1-L glass jar |
| Sediment depth | 2 cm |
| Overlying water volume | 800 mL |
| Test temperature | 15 ± 2°C |
| Water quality monitoring | Overlying water: pH, temperature, salinity, and dissolved oxygen daily, total ammonia on days 0 and 10. Interstitial water: pH, salinity, and total ammonia day 0. |
| Overlying water | Natural seawater collected off the SIO Pier in La Jolla, CA. 20µm filtered. Seawater was diluted to 32 ppt with deionized water prior to testing. |
| Number of organisms/chamber | 20 |
| Number of replicates | 5, plus 1 surrogate test chamber for water quality readings |
| Daily Observations | Observations were recorded daily in each replicate for emergence from sediment, aeration, mortality, and sediment appearance. |
| Negative controls | 1) <u>Lab control</u> : 0.5 mm sieved sand collected near organism home site (two lab controls per test batch; one per 7-8 samples); 2) <u>Fine Grain Size Control</u> : sediment collected in Sail Bay, Mission Bay, CA (one fine grain control per test batch) |
| Photoperiod | Continuous (24 hour) light for the sediment test; continuous dark for the reference toxicant water only test |
| Aeration | Continuous (3-4 bubbles per second) |
| Test Protocol(s) | SCCWRP 2013 and USEPA 600/R-94/025 (EPA 1994) |
| Test acceptability criterion | ≥ 90 percent mean survival in the lab control |
| Reference toxicant test | Ammonium chloride |

cm – centimeter
°C – degrees Celsius
L - Liter
mL – milliliter
mm - millimeter

ppt – parts per thousand
SIO – Scripps Institution of Oceanography
µm - micrometer
USEPA – United States Environmental Protection Agency

Table 2. Toxicity Test Methodology and QA/QC Requirements for Sediment Water Interface Bivalve Larvae Development Toxicity Tests

| | |
|------------------------------------|--|
| Test organism | Mediterranean mussel - <i>Mytilus galloprovincialis</i> |
| Test organism source | Taylor Shellfish; Shelton, WA |
| Test duration, endpoint | 48 hours, survival and development- reported as percent normal-alive (PNA) mussel embryos |
| Test solution renewal | None |
| Feeding | None |
| Test chamber | 250-mL polycarbonate screen tube inside 1-L glass jar |
| Screen Size | 25-micron |
| Test temperature | 15 ± 1°C test-wide mean, 15 ± 3°C instantaneous |
| Sediment depth | 4 cm |
| Overlying water volume | 300 mL |
| Overlying water quality monitoring | pH, temperature, salinity, and dissolved oxygen daily, total ammonia on days 0 and 2 |
| Overlying water | 1-µm filtered natural seawater collected off the SIO Pier in La Jolla, CA. Seawater was diluted to 32 ppt with deionized water prior to testing. |
| Number of organisms/chamber | ~300 larvae |
| Number of replicates | 5, plus 1 surrogate chamber for daily water quality |
| Negative control | Water only with screen tube (2 lab controls; one per 7-8 samples) |
| Photoperiod | 16 hours light/8 hours dark |
| Aeration | Continuous (1-2 bubbles per second) |
| Test Protocol | SCCWRP 2013, USEPA 1995, and Anderson et al. 1996 |
| Test acceptability criterion | Mean control percent normal-alive ≥70 |
| Reference toxicant test | Ammonium chloride |

cm – centimeter
°C – degrees Celsius
L - Liter
mL – milliliter
ppt – parts per thousand

SIO – Scripps Institution of Oceanography
µm - micrometer
USEPA – United States Environmental Protection Agency

2.3 Statistical Analyses

For the amphipod tests, survival in each sample was compared to survival in the lab control. Amphipod survival data, expressed as a proportion, were arcsine square-root transformed prior to analysis to normalize the distribution of the data and satisfy statistical assumptions for analysis. Statistical assumptions were evaluated prior to analysis using Bartlett's Test or F-test for differences in variance and D'Agostino Pearson Omnibus test for normality. Unpaired *t*-test comparisons were performed to identify significant differences between the laboratory control and individual samples. If parametric assumptions were not met, the data were initially tested with Kruskal-Wallis test, followed by the Mann-Whitney U-test, if *post-hoc* tests were warranted.

For the mussel tests percent normal-alive (# normal embryos/ initial # of embryos) in each sample was compared to percent normal-alive in the lab control. Following guidance from SCCWRP, unpaired *t*-test comparisons assuming unequal variance were performed with a Welch's correction on the untransformed data for each sample in comparison to the lab control. For a test where outliers are suspected among replicates, the Dixon's Test for Detecting Outliers was used according to USEPA guidance (USEPA 2000) to statistically determine whether or not the data points are outliers. As a general guideline, data were not removed from analysis unless there is corroborating evidence, beyond the statistical analysis, that indicated that a given replicate was anomalous.

Statistical analyses of test data were performed using GraphPad Prism, Version 4.02. Statistical analyses for the reference toxicant data were performed using Comprehensive Environmental Toxicity Information System Software (CETIS™), version 1.8.4.23 (Tidepool Scientific Software 2012).

2.4 Testing Schedule

The 30 samples were tested in two batches initiated between July 16 and 23, 2013. All tests were initiated within the two-week holding time specified in for the Bight program. A summary of the sample identification numbers, sample collection and receipt dates, and testing schedule is provided in Table 3.

Table 3. Toxicity Testing Schedule

| Test Batch | Sample ID B13-xxxx | Sample Collection Date | Sample Receipt Date | Amphipod Test Initiation Date | Mussel Test Initiation Date |
|------------|--------------------|------------------------|---------------------|-------------------------------|-----------------------------|
| Batch #1 | 8374 | 7/10/13 | 7/11/13 | 7/16/13 | 7/16/13 |
| | 8371 | 7/10/13 | 7/11/13 | | |
| | 8382 | 7/10/13 | 7/11/13 | | |
| | 8363 | 7/10/13 | 7/11/13 | | |
| | 8360 | 7/10/13 | 7/11/13 | | |
| | 8356 | 7/13/13 | 7/13/13 | | |
| | 8347 | 7/12/13 | 7/12/13 | | |
| | 8333 | 7/13/13 | 7/13/13 | | |
| | 8322 | 7/13/13 | 7/13/13 | | |
| | 8349 | 7/10/13 | 7/11/13 | | |
| | 8326 | 7/10/13 | 7/11/13 | | |
| | 8318 | 7/13/13 | 7/13/13 | | |
| | 8310 | 7/11/13 | 7/12/13 | | |
| | 8304 | 7/11/13 | 7/12/13 | | |
| 8308 | 7/11/13 | 7/12/13 | | | |
| Batch #2 | 8401 | 7/12/13 | 7/12/13 | 7/23/13 | 7/20/13 |
| | 8399 | 7/12/13 | 7/12/13 | | |
| | TMDL-3TB | 7/12/13 | 7/12/13 | | |
| | 8397 | 7/12/13 | 7/12/13 | | |
| | TMDL-4CS | 7/12/13 | 7/12/13 | | |
| | 8396 | 7/12/13 | 7/12/13 | | |
| | 8384 | 7/12/13 | 7/12/13 | | |
| | 8340 | 7/12/13 | 7/12/13 | | |
| | 8367 | 7/11/13 | 7/12/13 | | |
| | TMDL-2FH | 7/11/13 | 7/12/13 | | |
| | 8316 | 7/11/13 | 7/12/13 | | |
| | 8302 | 7/11/13 | 7/12/13 | | |
| | 8365 | 7/13/13 | 7/13/13 | | |
| | 8306 | 7/11/13 | 7/12/13 | | |
| TMDL-1CH | 7/11/13 | 7/12/13 | | | |

3.0 RESULTS

All lab controls for both species met test acceptability criteria as defined in the Bight '13 Toxicity Testing Manual. Batch #1 results for both species tested are presented in Figure 1, and for Batch #2 in Figure 2. A summary of toxicity test results are discussed below and detailed summaries, statistical results, and raw data sheets are provided in Appendix B (amphipods) and C (mussels).

3.1 Batch #1

Solid-Phase Tests

Mean survival of amphipods in the Batch #1 sediment laboratory controls was 98 and 99 percent for Lab Control #1 and #2, respectively. Mean survival in the Fine Grain Size Control was 99 percent, indicating that the organisms were not particularly sensitive to fine grain size during this round of testing. Little to no emergence or avoidance of the sediment by amphipods was noted for any of the sediments tested in Batch #1. Mean amphipod survival in the seven test sites associated with Lab Control #1 ranged from 85 to 98 percent. For the batch associated with Lab Control #1, mean survival in one sample (B13-8347; 85 percent) was found to be statistically reduced from the lab control.

Mean amphipod survival in the eight test sites associated with Lab Control #2 ranged from 89 to 98 percent; seven of the eight samples were statistically decreased from the lab control. However, only one sample (B13-8322; 89 percent survival) resulted in mean survival below 90 percent. Lab Control #2 had little variability among replicates, which resulted in an increase in statistical power to detect small differences as significant.

Sediment-Water Interface Tests

For Batch #1, mean percent normal-alive mussel embryos in the water only laboratory controls was 70.6 percent for Lab Control #1 and 70.7 percent for Lab Control #2. Mean normal-alive mussel embryos in the seven test sites associated with Lab Control #1 ranged from 58.1 to 72.8 percent; four of these resulted in a statically significant decrease from control (B13-8374, B13-8371, B13-8382 and B13-8347).

Mean normal-alive mussel embryos in the eight test sites associated with Lab Control #2 ranged from 59.5 to 70.5 percent; two of these resulted in a statically significant decrease from control (B13-8349 and B13-8308).

3.2 Batch #2

Solid-Phase Tests

Mean survival of amphipods in the Batch #2 sediment laboratory controls was 98 and 99 percent for Lab Control #1 and #2, respectively. Mean survival in the Fine Grain Size Control was 97 percent, indicating that the organisms were not particularly sensitive to fine grain size during this round of testing. Mean amphipod survival in the seven test sites associated with Lab Control #1 ranged from 83 to 97 percent. For the batch associated with Lab Control #1, mean survival in five samples was found to be statistically reduced from the lab control. Two of these resulted in mean survival below 90 percent (B13-8401; 86 percent, and TMDL-4CS; 83 percent). Additionally, daily observations revealed that several amphipods were emerging (i.e. avoiding the sediment) from all five replicates of the TMDL-4CS sample and were found swimming at the water surface. Each day, any amphipods that were observed out of the sediment were gently pushed down from the water surface until they re-burrowed in the sediment. Emergence was observed in some other samples as well, but only a few animals in one or two replicates. Daily observation datasheets are available with raw bench data in Appendix B.

Mean amphipod survival in the eight test sites associated with Lab Control #2 ranged from 77 to 97 percent. For the batch of samples associated with Lab Control #2, six of the eight samples were statistically decreased from the lab control. All six of these resulted in mean survival less than 90 percent (B13-8340, TMDL-2FH, B13-8302, B13-8365, B13-8306, and TMDL-1CH).

Sediment-Water Interface Tests

For Batch #2, mean percent normal-alive mussel embryos in the water only laboratory controls was 75.0 percent for Lab Control #1 and 74.8 percent for Lab Control #2. Mean normal-alive mussel embryos in the seven test sites associated with Lab Control #1 ranged from 60.3 to 90.2 percent; none of these resulted in a statically significant effect from control.

Mean normal-alive mussel embryos in the eight test sites associated with Lab Control #2 ranged from 67.4 to 95.4 percent; none of which resulted in a statically significant effect from control.

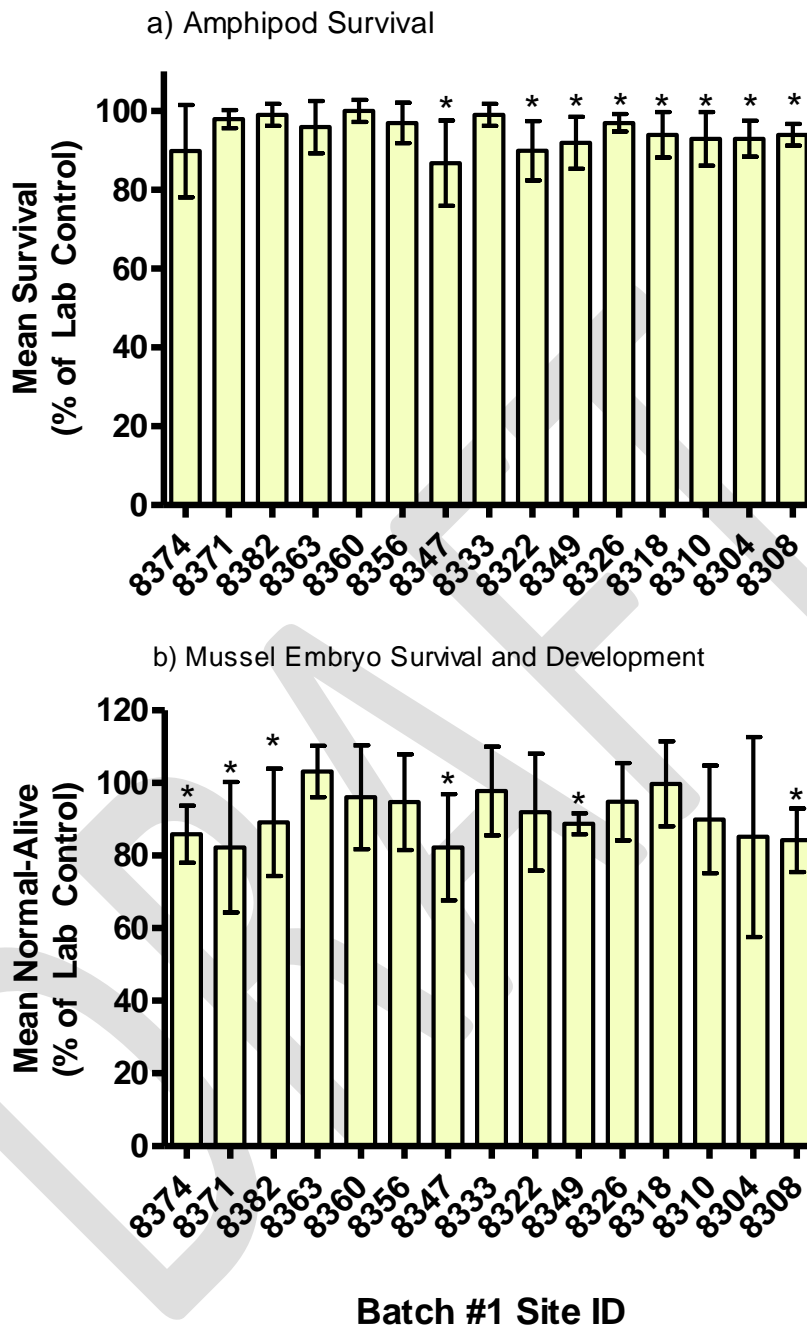


Figure 1. Results for the POLA/POLB Bight 13' Batch #1 Toxicity Tests
 a) Amphipod 10-day survival in the solid-phase sediment test, and b) mussel embryo percent normal-alive in the sediment water interface test. Results are presented as percent of lab control (mean ± standard deviation of the mean (SD)). *An asterisk indicates a statistically significant decrease compared to the lab control (p < 0.05).

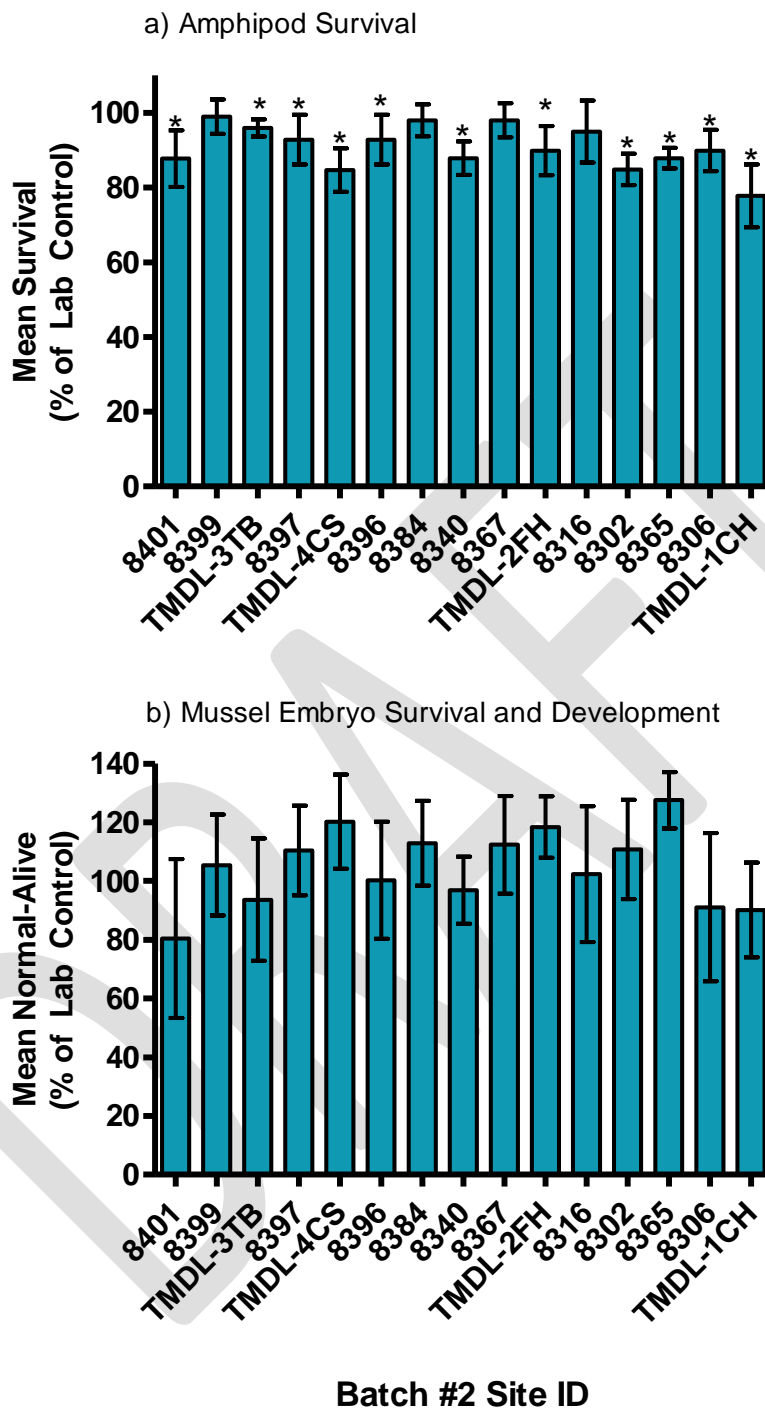


Figure 2. Results for the POLA/POLB Bight 13' Batch #2 Toxicity Tests

a) Amphipod 10-day survival in the solid-phase sediment test, and b) mussel embryo percent normal alive in the sediment water interface test. Results are presented as percent of lab control (mean \pm standard error of the mean (SD)). *An asterisk indicates a statistically significant decrease compared to the lab control ($p < 0.05$).

4.0 QUALITY ASSURANCE

All of the data presented have been thoroughly reviewed and are deemed acceptable for reporting in accordance with relevant protocols and Nautilus' internal QA/QC program. Any deviations with respect to test conditions and acceptability criteria are summarized below. All were determined to be minor with no impact on the final data or its interpretation. A list of laboratory qualifier codes can be found in Appendix D.

4.1 Sample Receipt, Handling and Holding Time

Samples were received and processed according to protocol described in previous sections. All tests were initiated within the two week holding time outlined for the Bight'13 program.

All samples were received on ice. Receipt temperatures ranged from 1.1 to 12.6°C. Upon receipt, all samples were moved to cold storage and held at $4 \pm 2^\circ\text{C}$ in the dark.

All ammonia values were below any reported thresholds for the test species with the exception of one sample at 48 hours in the mussel test (Tang 1997; USEPA 1994). Sample B13-8360 in Batch #1 had a calculated overlying unionized ammonia value of 0.050 mg/L, at the unpublished threshold value provided by the Marine Pollution Studies Laboratory. However, the total values of 2.1 mg/L remained below the threshold value given in the SCCWRP Technical Report 582 of 4.0 mg/L (SCCWRP 2009). Also note that the unionized value for sample B13-8360 was below the calculated no observed effect concentration (NOEC) for development of 0.090 mg/L for the concurrent reference toxicant test. Total and unionized ammonia tables (Appendix Tables E-1 through E-3) and all calculation and raw ammonia data sheets can be found in Appendix E.

4.2 Solid-Phase Toxicity Tests

All water quality parameters were within required ranges as defined by the test protocol for the entirety of the test.

4.3 Sediment-Water Interface Tests

All water quality parameters were within required ranges as defined by the test protocol for the entirety of the test. A few replicates were calculated as outliers using Dixon's test and they are noted in the summary table in Appendix B; however no outliers were excluded in the analysis for these tests.

4.4 Reference Toxicant Tests

Reference toxicant test results are provided in Appendix F. All reference toxicant tests met test acceptability criteria. However, median lethal effect (LC_{50} , IC_{50}) concentration values for the *Eohaustorius* and *Mytilus* reference toxicant tests (respectively) were above \pm two standard deviations of internal control chart means for both species in Batch #1, and for *Eohaustorius* only during Batch #2 testing.

5.0 REFERENCES

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- Tidepool Scientific Software. 2012. CETIS Comprehensive Toxicity Data Analysis and Database Software, Version 1.8.4.23.
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- USEPA 2000. Guidance for Data Quality Assessment. EPA 600/R-96/084. Office of Environmental Information, Washington D.C. July.

Appendix A

Chain of Custody Forms and Sample Receipt Information

Client: AMEC

Test IDs: 1307-S070 through 1307-S099

Project: POLA/POLA Bight '13 (Test Batch #1)

Test Type(s): Eohaustorius 10-day survival, 48-hr bivalve SWI

| Nautilus Log-in# 13-xxxx | Sample ID | Collection Date & Time | Receipt Date & Time | Receipt Temp. (°C) | No. Containers | Container Type | Approx. Total Volume Received (L) | Sample Description | Tech Intials |
|--------------------------|-----------|------------------------|---------------------|--------------------|----------------|--------------------|-----------------------------------|--------------------|--------------|
| 3122 | B13-8326 | 7/10/2013 8:56 | 7/11/2013 9:00 | 4.5 | 5 | 1-L plastic bottle | 5 | sediment | AG |
| 3123 | B13-8349 | 7/10/2013 10:17 | | 4.8 | 5 | 1-L plastic bottle | 5 | " | AG |
| 3124 | B13-8382 | 7/10/2013 11:31 | | 4.5 | 5 | 1-L plastic bottle | 5 | " | AG |
| 3125 | B13-8371 | 7/10/2013 12:30 | | 2.1 | 5 | 1-L plastic bottle | 5 | " | AG |
| 3126 | B13-8363 | 7/10/2013 14:00 | | 2.1 | 5 | 1-L plastic bottle | 5 | " | AG |
| 3127 | B13-8374 | 7/10/2013 14:53 | | 1.1 | 5 | 1-L plastic bottle | 5 | " | AG |
| 3128 | B13-8360 | 7/10/2013 15:59 | | 3.1 | 5 | 1-L plastic bottle | 5 | " | AG |
| 3130 | B13-8310 | 7/11/2013 18:05 | 7/12/2013 21:30 | 4.9 | 5 | 1-L plastic bottle | 5 | " | AC |
| 3131 | B13-8308 | 7/11/2013 17:25 | | 4.2 | 5 | 1-L plastic bottle | 5 | " | AC |
| 3132 | B13-8304 | 7/11/2013 16:43 | | 4.5 | 5 | 1-L plastic bottle | 5 | " | AC |
| 3147 | B13-8347 | 7/12/2013 17:24 | 7/12/2013 21:30 | 3.7 | 5 | 1-L plastic bottle | 5 | " | PA |
| 3148 | B13-8333 | 7/13/2013 7:58 | 7/13/2013 18:14 | 11.5 | 5 | 1-L plastic bottle | 5 | " | AC |
| 3150 | B13-8356 | 7/13/2013 9:37 | | 12.6 | 5 | 1-L plastic bottle | 5 | " | AC |
| 3151 | B13-8322 | 7/13/2013 10:25 | | 10.3 | 5 | 1-L plastic bottle | 5 | " | AC |
| 3152 | B13-8318 | 7/13/2013 11:10 | | 4.8 | 5 | 1-L plastic bottle | 5 | " | AC |

Samples Shipped Via: hand delivered

Sub-samples for additional chemistry:

COC Present? Y

Collect Porewater Tech Initials PA

Sieving Required? Y Screen Size: 1.0 mm

Other Tech Initials _____

Lab Control Sediment: Eoh home sediment

Other Tech Initials _____

| | | | | |
|----------------|---------------------|------------------|--|--|
| Test Organism: | <u>Eohaustorius</u> | <u>Bivalve</u> | | |
| Supplier: | <u>NWAS</u> | <u>Taylor</u> | | |
| Receipt Date: | <u>7/11/2013</u> | <u>7/16/2013</u> | | |
| Condition: | <u>good</u> | <u>good</u> | | |

Comments: _____

QC Check: AC 1/10/14

Final Review: WJ 1/16/14

Client: AMEC

Test IDs: 1307-S159 through 1307-S188

Project: POLA/POLA Bight #13 (Test Batch #2)

Test Type(s): Eohaustorius 10-day survival, 48-hr bivalve SWI

| Nautilus Log-in# 13-xxxx | Sample ID | Collection Date & Time | Receipt Date & Time | Receipt Temp. (°C) | No. Containers | Container Type | Approx. Total Volume Received (L) | Sample Description | Tech Initials |
|--------------------------|-----------|------------------------|---------------------|--------------------|----------------|--------------------|-----------------------------------|--------------------|---------------|
| 3133 | B13-8367 | 7/11/2013 14:30 | 7/12/2013 21:30 | 4.4 | 5 | 1-L plastic bottle | 5 | sediment | AC |
| 3134 | TMDL-2FH | 7/11/2013 15:44 | | 4.6 | 5 | 1-L plastic bottle | 5 | " | AC |
| 3135 | B13-8306 | 7/11/2013 13:18 | | 4.7 | 5 | 1-L plastic bottle | 5 | " | AC |
| 3136 | TMDL-1CH | 7/11/2013 12:24 | | 2.7 | 5 | 1-L plastic bottle | 5 | " | AC |
| 3137 | B13-8316 | 7/11/2013 10:45 | | 4.5 | 5 | 1-L plastic bottle | 5 | " | AC |
| 3138 | B13-8302 | 7/11/2013 9:55 | | 4.8 | 5 | 1-L plastic bottle | 5 | " | AC |
| 3139 | B13-8340 | 7/12/2013 8:36 | | 7/12/2013 21:30 | 4.9 | 5 | 1-L plastic bottle | 5 | " |
| 3140 | B13-8384 | 7/12/2013 9:29 | 4.2 | | 5 | 1-L plastic bottle | 5 | " | PA |
| 3141 | B13-8396 | 7/11/2013 17:25 | 3.9 | | 5 | 1-L plastic bottle | 5 | " | PA |
| 3142 | B13-8397 | 7/11/2013 16:43 | 4.8 | | 5 | 1-L plastic bottle | 5 | " | PA |
| 3143 | TMDL-4CS | 7/12/2013 12:35 | 3.3 | | 5 | 1-L plastic bottle | 5 | " | PA |
| 3144 | B13-8399 | 7/12/2013 14:07 | 5.2 | | 5 | 1-L plastic bottle | 5 | " | PA |
| 3145 | B13-8401 | 7/12/2013 14:58 | 7/12/2013 21:30 | | 4.0 | 5 | 1-L plastic bottle | 5 | " |
| 3146 | TMDL-3TB | 7/12/2013 15:55 | | 4.1 | 5 | 1-L plastic bottle | 5 | " | PA |
| 3149 | B13-8365 | 7/13/2013 8:53 | 7/13/2013 18:14 | 12.2 | 5 | 1-L plastic bottle | 5 | " | AC |

Samples Shipped Via: hand delivered

Sub-samples for additional chemistry:

COC Present? Y

Collect Porewater Tech Initials PA

Sieving Required? Y Screen Size: 1.0 mm

Other Tech Initials _____

Lab Control Sediment: Eoh home sediment

Other Tech Initials _____

| | | | | |
|----------------|---------------------|-----------|--|--|
| Test Organism: | <i>Eohaustorius</i> | Bivalve | | |
| Supplier: | NWAS | Taylor | | |
| Receipt Date: | 7/18/2013 | 7/18/2013 | | |
| Condition: | good | good | | |

Comments: _____

QC Check: AC 1/10/14

Final Review: Y 1/16/14

Analysis Request and Chain of Custody

POLA/POLB

Harbor Toxics TMDL and Bight '13

From:

AMEC Environment & Infrastructure
Attn: Chris Stransky
9210 Sky Park Court, Suite 200
San Diego, CA 92123
Phone: 858-300-4350 Fax: 858-300-4301

To:

Nautilus Environmental
Attn: Adrienne Cibor
4340 Vandever Avenue
San Diego, California 92120
Phone: 858-587-7333 Fax: 858-587-6769

| SampleID | Date | Time | Analyses | Sample Type | Bottle Size | Preservative | Bottle Count | OC |
|----------|---------|------|----------|-------------|-------------|--------------|--------------|------------|
| B13-8326 | 7/10/13 | 0856 | Toxicity | Grab | 1 L Plastic | None | 5 | 4.5 |
| B13-8349 | 7/10/13 | 1017 | Toxicity | Grab | 1 L Plastic | None | 5 | 4.8 |
| B13-8382 | 7/10/13 | 1131 | Toxicity | Grab | 1 L Plastic | None | 5 | 4.5 |
| B13-8371 | 7/10/13 | 1230 | Toxicity | Grab | 1 L Plastic | None | 5 | 2.1 |
| B13-8363 | 7/10/13 | 1400 | Toxicity | Grab | 1 L Plastic | None | 5 | 2.1 |
| B13-8374 | 7/10/13 | 1453 | Toxicity | Grab | 1 L Plastic | None | 5 | 1.1 |
| B13-8360 | 7/10/13 | 1559 | Toxicity | Grab | 1 L Plastic | None | 5 | 3.1 |
| | | | Toxicity | Grab | 1 L Plastic | None | 5 | 4.9 icl |

Sampler's Initials: JR

Relinquished By: Chris Stransky Date/Time: 7/11/13 0900

Received By: Adrienne Cibor Date/Time: 7/11/13 0900

Relinquished By: _____ Date/Time: _____

Received By: _____ Date/Time: _____

13-3122 - 13-3128

Analysis Request and Chain of Custody

POLA/POLB

Harbor Toxics TMDL and Bight '13

From:

AMEC Environment & Infrastructure
 Attn: Chris Stransky
 9210 Sky Park Court, Suite 200
 San Diego, CA 92123
 Phone: 858-300-4350 Fax: 858-300-4301

To:

Nautilus Environmental
 Attn: Adrienne Cibor
 4340 Vandever Avenue
 San Diego, California 92120
 Phone: 858-587-7333 Fax: 858-587-6769

| SampleID | Date | Time | Analyses | Sample Type | Bottle Size | Preservative | Bottle Count | °C |
|-----------------|----------------|-------------|----------|-------------|-------------|--------------|--------------|------------|
| <u>B13-8310</u> | <u>7/11/13</u> | <u>1805</u> | Toxicity | Grab | 1 L Plastic | None | <u>5</u> | <u>4.9</u> |
| <u>B13-8308</u> | <u>7/11/13</u> | <u>1725</u> | Toxicity | Grab | 1 L Plastic | None | <u>5</u> | <u>4.2</u> |
| <u>D13-8304</u> | <u>7/11/13</u> | <u>1643</u> | Toxicity | Grab | 1 L Plastic | None | <u>5</u> | <u>4.5</u> |
| <u>B13-8367</u> | <u>7/11/13</u> | <u>1430</u> | Toxicity | Grab | 1 L Plastic | None | <u>5</u> | <u>4.4</u> |
| <u>TMDL2-FH</u> | <u>7/11/13</u> | <u>1544</u> | Toxicity | Grab | 1 L Plastic | None | <u>5</u> | <u>4.6</u> |
| <u>B13-8306</u> | <u>7/11/13</u> | <u>1318</u> | Toxicity | Grab | 1 L Plastic | None | <u>5</u> | <u>4.7</u> |
| <u>TMDL1-CH</u> | <u>7/11/13</u> | <u>1224</u> | Toxicity | Grab | 1 L Plastic | None | <u>5</u> | <u>2.7</u> |
| <u>B13-8316</u> | <u>7/11/13</u> | <u>1045</u> | Toxicity | Grab | 1 L Plastic | None | <u>5</u> | <u>4.5</u> |

Sampler's Initials: JR

Relinquished By: [Signature] Date/Time: 7/12/13 2130

Received By: Adrienne Cibor Date/Time: 7/12/13 2130

Relinquished By: _____ Date/Time: _____

Received By: _____ Date/Time: _____

13-3130 - 3137

Analysis Request and Chain of Custody

POLA/POLB

Harbor Toxics TMDL and Bight '13

From:

AMEC Environment & Infrastructure
 Attn: Chris Stransky
 9210 Sky Park Court, Suite 200
 San Diego, CA 92123
 Phone: 858-300-4350 Fax: 858-300-4301

To:

Nautilus Environmental
 Attn: Adrienne Cibor
 4340 Vandever Avenue
 San Diego, California 92120
 Phone: 858-587-7333 Fax: 858-587-6769

| SampleID | Date | Time | Analyses | Sample Type | Bottle Size | Preservative | Bottle Count |
|----------|---------|------|----------|-------------|-------------|--------------|--------------|
| B13-8302 | 7/11/13 | 0915 | Toxicity | Grab | 1 L Plastic | None | 5 |
| | | | Toxicity | Grab | 1 L Plastic | None | 5 |
| | | | Toxicity | Grab | 1 L Plastic | None | 5 |
| | | | Toxicity | Grab | 1 L Plastic | None | 5 |
| | | | Toxicity | Grab | 1 L Plastic | None | 5 |
| | | | Toxicity | Grab | 1 L Plastic | None | 5 |
| | | | Toxicity | Grab | 1 L Plastic | None | 5 |
| | | | Toxicity | Grab | 1 L Plastic | None | 5 |

OC
4.8

Sampler's Initials: JR

Relinquished By: (J. Buens) Date/Time: 7/12/13 2:30

Received By: Adrienne Cibor Date/Time: 7/12/13 2:30

Relinquished By: _____ Date/Time: _____

Received By: _____ Date/Time: _____

13-3138

Analysis Request and Chain of Custody

POLA/POLB

Harbor Toxics TMDL and Bight '13

From:

AMEC Environment & Infrastructure
Attn: Chris Stransky
9210 Sky Park Court, Suite 200
San Diego, CA 92123
Phone: 858-300-4350 Fax: 858-300-4301

To:

Nautilus Environmental
Attn: Adrienne Cibor
4340 Vandever Avenue
San Diego, California 92120
Phone: 858-587-7333 Fax: 858-587-6769

| SampleID | Date | Time | Analyses | Sample Type | Bottle Size | Preservative | Bottle Count |
|-----------------|----------------|-------------|----------|-------------|-------------|--------------|--------------|
| <u>B13-8340</u> | <u>7/12/13</u> | <u>0836</u> | Toxicity | Grab | 1 L Plastic | None | <u>5</u> 4.9 |
| <u>B13-8384</u> | <u>7/12/13</u> | <u>0929</u> | Toxicity | Grab | 1 L Plastic | None | <u>5</u> 4.2 |
| <u>B13-8396</u> | <u>7/12/13</u> | <u>1010</u> | Toxicity | Grab | 1 L Plastic | None | <u>5</u> 3.9 |
| <u>B13-8397</u> | <u>7/12/13</u> | <u>1136</u> | Toxicity | Grab | 1 L Plastic | None | <u>5</u> 4.8 |
| <u>TMDL4-C5</u> | <u>7/12/13</u> | <u>1235</u> | Toxicity | Grab | 1 L Plastic | None | <u>5</u> 3.3 |
| <u>B13-8399</u> | <u>7/12/13</u> | <u>1407</u> | Toxicity | Grab | 1 L Plastic | None | <u>5</u> 5.2 |
| <u>B13-8401</u> | <u>7/12/13</u> | <u>1458</u> | Toxicity | Grab | 1 L Plastic | None | <u>5</u> 4.0 |
| <u>TMDL3-TB</u> | <u>7/12/13</u> | <u>1555</u> | Toxicity | Grab | 1 L Plastic | None | <u>5</u> 4.1 |

Sampler's Initials: JR

Relinquished By: C. Burns Date/Time: 7/12/13 2130

Received By: Adrienne Cibor Date/Time: 7/12/13 2130

Relinquished By: _____ Date/Time: _____

Received By: _____ Date/Time: _____

13-3139-5146

Analysis Request and Chain of Custody

POLA/POLB

Harbor Toxics TMDL and Bight '13

From:

AMEC Environment & Infrastructure
Attn: Chris Stransky
9210 Sky Park Court, Suite 200
San Diego, CA 92123
Phone: 858-300-4350 Fax: 858-300-4301

To:

Nautilus Environmental
Attn: Adrienne Cibor
4340 Vandever Avenue
San Diego, California 92120
Phone: 858-587-7333 Fax: 858-587-6769

| SampleID | Date | Time | Analyses | Sample Type | Bottle Size | Preservative | Bottle Count |
|----------|---------|------|----------|-------------|-------------|--------------|------------------|
| B13-8347 | 7/12/13 | 1724 | Toxicity | Grab | 1 L Plastic | None | 5 ^{3.7} |
| | | | Toxicity | Grab | 1 L Plastic | None | 5 |
| | | | Toxicity | Grab | 1 L Plastic | None | 5 |
| | | | Toxicity | Grab | 1 L Plastic | None | 5 |
| | | | Toxicity | Grab | 1 L Plastic | None | 5 |
| | | | Toxicity | Grab | 1 L Plastic | None | 5 |
| | | | Toxicity | Grab | 1 L Plastic | None | 5 |
| | | | Toxicity | Grab | 1 L Plastic | None | 5 |

Sampler's Initials: JR

Relinquished By: (J. Buena) Date/Time: 7/12/13 2130

Received By: Adrienne Cibor Date/Time: 7/12/13 2130

Relinquished By: _____ Date/Time: _____

Received By: _____ Date/Time: _____

13-3147

Analysis Request and Chain of Custody

POLA/POLB

Harbor Toxics TMDL and Bight '13

From:

AMEC Environment & Infrastructure
 Attn: Chris Stransky
 9210 Sky Park Court, Suite 200
 San Diego, CA 92123
 Phone: 858-300-4350 Fax: 858-300-4301

To:

Nautilus Environmental
 Attn: Adrienne Cibor
 4340 Vandever Avenue
 San Diego, California 92120
 Phone: 858-587-7333 Fax: 858-587-6769

| SampleID | Date | Time | Analyses | Sample Type | Bottle Size | Preservative | Bottle Count |
|----------|---------|------|----------|-------------|-------------|--------------|---------------|
| B13-8333 | 7/13/13 | 0758 | Toxicity | Grab | 1 L Plastic | None | 5 <u>11.5</u> |
| B13-8365 | 7/13/13 | 0853 | Toxicity | Grab | 1 L Plastic | None | 5 <u>12.2</u> |
| B13-8356 | 7/13/13 | 0937 | Toxicity | Grab | 1 L Plastic | None | 5 <u>12.6</u> |
| B13-8322 | 7/13/13 | 1025 | Toxicity | Grab | 1 L Plastic | None | 5 <u>10.3</u> |
| B13-8318 | 7/13/13 | 1110 | Toxicity | Grab | 1 L Plastic | None | 5 <u>4.8</u> |
| | | | Toxicity | Grab | 1 L Plastic | None | 5 |
| | | | Toxicity | Grab | 1 L Plastic | None | 5 |
| | | | Toxicity | Grab | 1 L Plastic | None | 5 |

Sampler's Initials: JS

Relinquished By: [Signature] Date/Time: 7/13/13 1814

Received By: Adrienne Cibor Date/Time: 7/13/13 1814

Relinquished By: [Signature] Date/Time: _____

Received By: _____ Date/Time: _____

13-3148 to 3152

Southern California Coastal Water Research Project

Chain of Custody



3535 Harbor Blvd. Suite 110
 Costa Mesa, CA 92626-1437
 (714) 755-3200 Fax (714) 755-3299

Date July 15, 2013 Page 1 of 1

| Sample Collection By: <u>AMEL</u> | | | Project Name: <u>BID</u> | | | Project Number: _____ | |
|-----------------------------------|---------------|------|--------------------------|----------------|----------------------|-----------------------|----------------------------|
| Sample ID | Date | Time | Matrix | Container Type | Number of Containers | Comments | Analysis |
| <u>Grain Size Cont.</u> | <u>7-9-13</u> | | <u>Sed</u> | <u>1 liter</u> | <u>12</u> | | <u>Toxicity (Amphipod)</u> |
| | | | | | | | |
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| | | | | | | | |

temp
4.1

| Relinquished By | | Relinquished By | | Relinquished By | |
|---|-----------------------|-----------------|--------|-----------------|--------|
| (Signature) <u>[Signature]</u> | (Date) <u>7-15-13</u> | (Signature) | (Date) | (Signature) | (Date) |
| (Printed Name) <u>Dustin Greenstein</u> | (Time) <u>1500</u> | (Printed Name) | (Time) | (Printed Name) | (Time) |
| (Company) <u>SCCWRP</u> | | (Company) | | (Company) | |
| Received By | | Received By | | Received By | |
| (Signature) <u>[Signature]</u> | (Date) <u>7/15/13</u> | (Signature) | (Date) | (Signature) | (Date) |
| (Printed Name) <u>Adrienne Cibac</u> | (Time) <u>10:00</u> | (Printed Name) | (Time) | (Printed Name) | (Time) |
| (Company) <u>Nautilus</u> | | (Company) | | (Company) | |

13-3153

Appendix B

Statistical Analyses and Raw Data Packages
Solid Phase Testing
10-day *Eohaustorius estuarius* Survival

Appendix Table B-1. *Eohaustorius estuarius* 10-day Survival

AMEC POLA/POLB Bight '13

Batch #1 Test Initiation: July 16, 2013

| Site ID | Rep | Random No. | # Alive | Percent Survival | Mean Percent Survival | Standard Deviation | Site ID | Rep | Random No. | # Alive | Percent Survival | Mean Percent Survival | Standard Deviation |
|--------------------------------|-----|------------|---------|------------------|-----------------------|--------------------|-----------------|-----|-----------------|---------|------------------|-----------------------|--------------------|
| Lab Control #1 | A | 64 | 20 | 100 | 98 | 2.7 | B13-8363 | A | 68 | 20 | 100 | 94 | 6.5 |
| | B | 33 | 19 | 95 | | | | B | 43 | 18 | 90 | | |
| | C | 61 | 20 | 100 | | | | C | 27 | 20 | 100 | | |
| | D | 54 | 19 | 95 | | | | D | 53 | 19 | 95 | | |
| | E | 56 | 20 | 100 | | | | E | 47 | 17 | 85 | | |
| Fine Grain Size Control | A | 42 | 19 | 95 | 99 | 2.2 | B13-8360 | A | 36 | 20 | 100 | 98 | 2.7 |
| | B | 46 | 20 | 100 | | | | B | 50 | 19 | 95 | | |
| | C | 48 | 20 | 100 | | | | C | 69 | 20 | 100 | | |
| | D | 65 | 20 | 100 | | | | D | 62 | 19 | 95 | | |
| | E | 30 | 20 | 100 | | | | E | 34 | 20 | 100 | | |
| B13-8374 | A | 57 | 20 | 100 | 88 | 12 | B13-8356 | A | 59 | 18 | 90 | 95 | 5.0 |
| | B | 41 | 15 | 75 | | | | B | 37 | 20 | 100 | | |
| | C | 66 | 16 | 80 | | | | C | 39 | 18 | 90 | | |
| | D | 25 | 20 | 100 | | | | D | 35 | 20 | 100 | | |
| | E | 31 | 17 | 85 | | | | E | 40 | 19 | 95 | | |
| B13-8371 | A | 26 | 19 | 95 | 96 | 2.2 | B13-8347 | A | 28 | 19 | 95 | 85* | 11 |
| | B | 52 | 20 | 100 | | | | B | 63 ^a | 14 | 70 | | |
| | C | 44 | 19 | 95 | | | | C | 49 | 19 | 95 | | |
| | D | 45 | 19 | 95 | | | | D | 55 | 16 | 80 | | |
| | E | 67 | 19 | 95 | | | | E | 38 | 17 | 85 | | |
| B13-8382 | A | 58 | 20 | 100 | 97 | 2.7 | | | | | | | |
| | B | 32 | 19 | 95 | | | | | | | | | |
| | C | 51 | 20 | 100 | | | | | | | | | |
| | D | 29 | 19 | 95 | | | | | | | | | |
| | E | 60 | 19 | 95 | | | | | | | | | |

*A bold asterisk indicates a statistically significant decrease from the lab control ($p < 0.05$).

^a Dead amphipods observed; small, tube forming polychaete worms present.

Appendix Table B-1 (continued). *Eohaustorius estuarius* 10-day Survival

AMEC POLA/POLB Bight '13

Batch #1 Test Initiation: July 16, 2013

| Site ID | Rep | Random No. | # Alive | Percent Survival | Mean Percent Survival | Standard Deviation | Site ID | Rep | Random No. | # Alive | Percent Survival | Mean Percent Survival | Standard Deviation |
|-----------------------|-----|------------|---------|------------------|-----------------------|--------------------|-----------------|-----|------------|---------|------------------|-----------------------|--------------------|
| Lab Control #2 | A | 110 | 19 | 95 | 99 | 2.2 | B13-8318 | A | 73 | 20 | 100 | 93* | 5.7 |
| | B | 84 | 20 | 100 | | | | B | 72 | 17 | 85 | | |
| | C | 75 | 20 | 100 | | | | C | 112 | 19 | 95 | | |
| | D | 107 | 20 | 100 | | | | D | 85 | 18 | 90 | | |
| | E | 106 | 20 | 100 | | | | E | 78 | 19 | 95 | | |
| B13-8333 | A | 80 | 20 | 100 | 98 | 2.7 | B13-8310 | A | 90 | 16 | 80 | 92* | 6.7 |
| | B | 92 | 19 | 95 | | | | B | 95 | 19 | 95 | | |
| | C | 82 | 20 | 100 | | | | C | 96 | 19 | 95 | | |
| | D | 105 | 20 | 100 | | | | D | 111 | 19 | 95 | | |
| | E | 102 | 19 | 95 | | | | E | 113 | 19 | 95 | | |
| B13-8322 | A | 76 | 16 | 80 | 89* | 7.4 | B13-8304 | A | 81 | 19 | 95 | 92* | 4.5 |
| | B | 86 | 20 | 100 | | | | B | 79 | 18 | 90 | | |
| | C | 103 | 18 | 90 | | | | C | 83 | 17 | 85 | | |
| | D | 88 | 17 | 85 | | | | D | 101 | 19 | 95 | | |
| | E | 91 | 18 | 90 | | | | E | 109 | 19 | 95 | | |
| B13-8349 | A | 77 | 19 | 95 | 91* | 6.5 | B13-8308 | A | 74 | 18 | 90 | 93* | 2.7 |
| | B | 89 | 17 | 85 | | | | B | 70 | 19 | 95 | | |
| | C | 100 | 18 | 90 | | | | C | 99 | 19 | 95 | | |
| | D | 87 | 17 | 85 | | | | D | 104 | 19 | 95 | | |
| | E | 94 | 20 | 100 | | | | E | 71 | 18 | 90 | | |
| B13-8326 | A | 93 | 19 | 95 | 96* | 2.2 | | | | | | | |
| | B | 114 | 19 | 95 | | | | | | | | | |
| | C | 97 | 19 | 95 | | | | | | | | | |
| | D | 98 | 19 | 95 | | | | | | | | | |
| | E | 108 | 20 | 100 | | | | | | | | | |

*A bold asterisk indicates a statistically significant decrease from the lab control ($p < 0.05$).

Appendix Table B-2. *Eohaustorius estuarius* 10-day Survival

AMEC POLA/POLB Bight '13

Batch #2 Test Initiation: July 23, 2013

| Site ID | Rep | Random No. | # Alive | Percent Survival | Mean Percent Survival | Standard Deviation | Site ID | Rep | Random No. | # Alive | Percent Survival | Mean Percent Survival | Standard Deviation |
|--------------------------------|-----|------------|---------|------------------|-----------------------|--------------------|-----------------|-----|------------|---------|------------------|-----------------------|--------------------|
| Lab Control #1 | A | 127 | 20 | 100 | 98 | 4.5 | B13-8397 | A | 125 | 16 | 80 | 91* | 6.5 |
| | B | 119 | 20 | 100 | | | | B | 131 | 19 | 95 | | |
| | C | 138 | 18 | 90 | | | | C | 130 | 19 | 95 | | |
| | D | 128 | 20 | 100 | | | | D | 149 | 19 | 95 | | |
| | E | 157 | 20 | 100 | | | | E | 155 | 18 | 90 | | |
| Fine Grain Size Control | A | 153 | 19 | 95 | 97 | 2.7 | TMDL-4CS | A | 121 | 17 | 85 | 83* | 5.7 |
| | B | 159 | 20 | 100 | | | | B | 151 | 18 | 90 | | |
| | C | 156 | 19 | 95 | | | | C | 137 | 16 | 80 | | |
| | D | 158 | 20 | 100 | | | | D | 134 | 17 | 85 | | |
| | E | 147 | 19 | 95 | | | | E | 133 | 15 | 75 | | |
| B13-8401 | A | 129 | 17 | 85 | 86* | 7.4 | B13-8396 | A | 145 | 17 | 85 | 91* | 6.5 |
| | B | 143 | 19 | 95 | | | | B | 116 | 17 | 85 | | |
| | C | 154 | 18 | 90 | | | | C | 120 | 19 | 95 | | |
| | D | 135 | 17 | 85 | | | | D | 126 | 20 | 100 | | |
| | E | 136 | 15 | 75 | | | | E | 115 | 18 | 90 | | |
| B13-8399 | A | 141 | 20 | 100 | 97 | 4.5 | B13-8384 | A | 117 | 19 | 95 | 96 | 4.2 |
| | B | 122 | 19 | 95 | | | | B | 142 | 20 | 100 | | |
| | C | 124 | 20 | 100 | | | | C | 132 | 18 | 90 | | |
| | D | 118 | 18 | 90 | | | | D | 152 | 19 | 95 | | |
| | E | 139 | 20 | 100 | | | | E | 146 | 20 | 100 | | |
| TMDL-3TB | A | 140 | 19 | 95 | 94* | 2.2 | | | | | | | |
| | B | 144 | 18 | 90 | | | | | | | | | |
| | C | 123 | 19 | 95 | | | | | | | | | |
| | D | 148 | 19 | 95 | | | | | | | | | |
| | E | 150 | 19 | 95 | | | | | | | | | |

*A bold asterisk indicates a statistically significant decrease from the lab control ($p < 0.05$).

Appendix Table B-2 (continued). *Eohaustorius estuarius* 10-day Survival

AMEC POLA/POLB Bight '13

Batch #2 Test Initiation: July 23, 2013

| Site ID | Rep | Random No. | # Alive | Percent Survival | Mean Percent Survival | Standard Deviation | Site ID | Rep | Random No. | # Alive | Percent Survival | Mean Percent Survival | Standard Deviation |
|-----------------------|-----|------------|---------|------------------|-----------------------|--------------------|-----------------|-----|------------|---------|------------------|-----------------------|--------------------|
| Lab Control #2 | A | 179 | 20 | 100 | 99 | 2.2 | B13-8302 | A | 189 | 17 | 85 | 84* | 4.2 |
| | B | 165 | 20 | 100 | | | | B | 193 | 18 | 90 | | |
| | C | 184 | 20 | 100 | | | | C | 182 | 17 | 85 | | |
| | D | 185 | 20 | 100 | | | | D | 202 | 16 | 80 | | |
| | E | 180 | 19 | 95 | | | | E | 171 | 16 | 80 | | |
| B13-8340 | A | 176 | 18 | 90 | 87* | 4.5 | B13-8365 | A | 166 | 17 | 85 | 87* | 2.7 |
| | B | 188 | 16 | 80 | | | | B | 168 | 17 | 85 | | |
| | C | 183 | 18 | 90 | | | | C | 192 | 17 | 85 | | |
| | D | 169 | 18 | 90 | | | | D | 178 | 18 | 90 | | |
| | E | 174 | 17 | 85 | | | | E | 203 | 18 | 90 | | |
| B13-8367 | A | 196 | 20 | 100 | 97 | 4.5 | B13-8306 | A | 190 | 18 | 90 | 89* | 5.5 |
| | B | 194 | 20 | 100 | | | | B | 198 | 18 | 90 | | |
| | C | 172 | 18 | 90 | | | | C | 187 | 19 | 95 | | |
| | D | 177 | 19 | 95 | | | | D | 181 | 16 | 80 | | |
| | E | 195 | 20 | 100 | | | | E | 197 | 18 | 90 | | |
| TMDL-2FH | A | 191 | 18 | 90 | 89* | 6.5 | TMDL-1CH | A | 163 | 13 | 65 | 77* | 8.4 |
| | B | 173 | 19 | 95 | | | | B | 160 | 17 | 85 | | |
| | C | 199 | 17 | 85 | | | | C | 200 | 15 | 75 | | |
| | D | 167 | 19 | 95 | | | | D | 204 | 17 | 85 | | |
| | E | 161 | 16 | 80 | | | | E | 201 | 15 | 75 | | |
| B13-8316 | A | 175 | 20 | 100 | 94 | 8.2 | | | | | | | |
| | B | 164 | 19 | 95 | | | | | | | | | |
| | C | 162 | 19 | 95 | | | | | | | | | |
| | D | 186 | 16 | 80 | | | | | | | | | |
| | E | 170 | 20 | 100 | | | | | | | | | |

*A bold asterisk indicates a statistically significant decrease from the lab control (p < 0.05).

**Appendix Table B-3. Statistical Analysis Results of *Eohaustorius estuarius* 10-day Survival
AMEC POLA/POLB Bight '13**

| Batch #1 Site ID | Statistically Significant (Y/N) | p-value | Batch #2 Site ID | Statistically Significant (Y/N) | p-value |
|---------------------|------------------------------------|---------------|---------------------|------------------------------------|-------------------|
| B13-8374 | N | 0.1548 | B13-8401 | Y | 0.0047 |
| B13-8371 | N | 0.1548 | B13-8399 | N | 0.3563 |
| B13-8382 | N | 0.3452 | TMDL-3TB | Y | 0.0419 |
| B13-8363 | N | 0.2103 | B13-8397 | Y | 0.0290 |
| B13-8360 | N | 0.5000 | TMDL-4CS | Y | 0.0006 |
| B13-8356 | N | 0.2103 | B13-8396 | Y | 0.0411 |
| B13-8347 | Y | 0.0159 | B13-8384 | N | 0.2268 |
| B13-8333 | N | 0.2724 | B13-8340 | Y | 0.0001 |
| B13-8322 | Y | 0.0088 | B13-8367 | N | 0.2045 |
| B13-8349 | Y | 0.0150 | TMDL-2FH | Y | 0.0031 |
| B13-8326 | Y | 0.0333 | B13-8316 | N | 0.1045 |
| B13-8318 | Y | 0.0262 | B13-8302 | Y | <0.0001 |
| B13-8310 | Y | 0.0151 | B13-8365 | Y | <0.0001 |
| B13-8304 | Y | 0.0042 | B13-8306 | Y | 0.0011 |
| B13-8308 | Y | 0.0021 | TMDL-1CH | Y | <0.0001 |

Sites in bold indicate a statistically significant reduction in survival relative to the corresponding lab control (p<0.05).

Appendix C

Statistical Analyses and Raw Data Packages for Sediment-Water Interface Testing (*Mytilus*)

Appendix Table C-1. *Mytilus galloprovincialis* 48-Hour Larval Survival & Development Results

AMEC POLA/POLB Bight '13

Batch #1 Test Initiation: July 16, 2013

| Site ID | Rep | Rand # | # Counted | # Normal | Percent Normal Alive | Mean Percent Normal Alive | SD | Site ID | Rep | Rand # | # Counted | # Normal | Percent Normal Alive | Mean Percent Normal Alive | SD |
|-----------------------|-----|--------|-----------|----------|----------------------|---------------------------|-----|-----------------|-----|--------|-----------|----------|----------------------|---------------------------|-----|
| Lab Control #1 | A | 66 | 239 | 201 | 80.1 | 70.6 | 6.7 | B13-8363 | A | 60 | 206 | 187 | 74.5 | 72.8 | 5.0 |
| | B | 71 | 198 | 176 | 70.1 | | | | B | 55 | 209 | 185 | 73.7 | | |
| | C | 46 | 226 | 183 | 72.9 | | | | C | 75 | 230 | 200 | 79.7 | | |
| | D | 38 | 219 | 171 | 68.1 | | | | D | 72 | 184 | 175 | 69.7 | | |
| | E | 51 | 188 | 155 | 61.8 | | | | E | 47 | 182 | 167 | 66.5 | | |
| B13-8374 | A | 49 | 183 | 137 | 54.6 | 60.6* | 5.5 | B13-8360 | A | 39 | 156 | 137 | 54.6 | 67.8 | 10 |
| | B | 65 | 177 | 145 | 57.8 | | | | B | 53 | 209 | 185 | 73.7 | | |
| | C | 63 | 195 | 171 | 68.1 | | | | C | 62 | 249 | 203 | 80.9 | | |
| | D | 42 | 188 | 162 | 64.5 | | | | D | 69 | 192 | 157 | 62.5 | | |
| | E | 58 | 161 | 146 | 58.2 | | | | E | 59 | 178 | 169 | 67.3 | | |
| B13-8371 | A | 50 | 188 | 151 | 60.2 | 58.1* | 13 | B13-8356 | A | 57 | 189 | 169 | 67.3 | 66.9 | 9.3 |
| | B | 36 | 182 | 167 | 66.5 | | | | B | 40 | 227 | 194 | 77.3 | | |
| | C | 41 | 200 | 174 | 69.3 | | | | C | 43 | 146 | 130 | 51.8 | | |
| | D | 64 | 93 | 93 | 37.1 | | | | D | 61 | 200 | 171 | 68.1 | | |
| | E | 70 | 158 | 144 | 57.4 | | | | E | 45 | 196 | 175 | 69.7 | | |
| B13-8382 | A | 73 | 188 | 166 | 66.1 | 62.9* | 10 | B13-8347 | A | 37 | 150 | 115 | 45.8 | 58.1* | 10 |
| | B | 68 | 193 | 152 | 60.6 | | | | B | 52 | 157 | 124 | 49.4 | | |
| | C | 56 | 211 | 188 | 74.9 | | | | C | 54 | 178 | 163 | 64.9 | | |
| | D | 74 | 182 | 167 | 66.5 | | | | D | 67 | 178 | 150 | 59.8 | | |
| | E | 48 | 139 | 117 | 46.6 | | | | E | 44 | 210 | 177 | 70.5 | | |

Initial mean density per vial = 251 embryos

***A bold asterisk** indicates a significant statistical reduction compared to the Lab Control (unequal variance t-test $p < 0.05$, untransformed data per SCCWRP Bight instructions).

^a Replicate was calculated as a statistical outlier using Dixon's test, but not excluded from analysis.

Appendix Table C-1 (continued). *Mytilus galloprovincialis* 48-Hour Larval Survival & Development Results

AMEC POLA/POLB Bight '13

Batch #1 Test Initiation: July 16, 2013

| Site ID | Rep | Rand # | # Counted | # Normal | Percent Normal Alive | Mean Percent Normal Alive | SD | Site ID | Rep | Rand # | # Counted | # Normal | Percent Normal Alive | Mean Percent Normal Alive | SD |
|----------------|-----|--------|-----------|----------|----------------------|---------------------------|-----|----------|-----|--------|-----------|----------|----------------------|---------------------------|-----|
| Lab Control #2 | A | 106 | 184 | 145 | 57.8 | 70.7 | 8.0 | B13-8318 | A | 86 | 235 | 205 | 81.7 | 70.5 | 8.3 |
| | B | 98 | 207 | 184 | 73.3 | | | | B | 100 | 184 | 158 | 62.9 | | |
| | C | 96 | 199 | 173 | 68.9 | | | | C | 111 | 230 | 193 | 76.9 | | |
| | D | 94 | 225 | 196 | 78.1 | | | | D | 83 | 205 | 164 | 65.3 | | |
| | E | 103 | 209 | 189 | 75.3 | | | | E | 115 | 178 | 165 | 65.7 | | |
| B13-8333 | A | 76 | 204 | 174 | 69.3 | 69.1 | 8.7 | B13-8310 | A | 91 | 215 | 195 | 77.7 | 63.6 | 10 |
| | B | 101 | 210 | 187 | 74.5 | | | | B | 79 | 181 | 172 | 68.5 | | |
| | C | 117 | 205 | 189 | 75.3 | | | | C | 80 | 146 | 124 | 49.4 | | |
| | D | 81 | 172 | 136 | 54.2 | | | | D | 112 | 182 | 155 | 61.8 | | |
| | E | 97 | 215 | 181 | 72.1 | | | | E | 77 | 200 | 152 | 60.6 | | |
| B13-8322 | A | 102 | 206 | 182 | 72.5 | 65.0 | 11 | B13-8304 | A | 119 | 201 | 181 | 72.1 | 60.2 | 19 |
| | B | 109 | 200 | 186 | 74.1 | | | | B | 90 | 79 | 70 | 27.9 | | |
| | C | 84 | 183 | 148 | 59.0 | | | | C | 107 | 169 | 145 | 57.8 | | |
| | D | 95 | 202 | 180 | 71.7 | | | | D | 108 | 190 | 165 | 65.7 | | |
| | E | 93 | 129 | 120 | 47.8 | | | | E | 92 | 207 | 194 | 77.3 | | |
| B13-8349 | A | 78 | 185 | 154 | 61.4 | 62.7* | 2.1 | B13-8308 | A | 116 | 170 | 146 | 58.2 | 59.5* | 6.2 |
| | B | 110 | 170 | 156 | 62.2 | | | | B | 87 | 187 | 164 | 65.3 | | |
| | C | 105 | 185 | 165 | 65.7 | | | | C | 118 | 153 | 138 | 55.0 | | |
| | D | 104 | 178 | 152 | 60.6 | | | | D | 89 | 160 | 132 | 52.6 | | |
| | E | 113 | 193 | 160 | 63.7 | | | | E | 88 | 195 | 167 | 66.5 | | |
| B13-8326 | A | 82 | 218 | 178 | 70.9 | 67.0 | 7.5 | | | | | | | | |
| | B | 99 | 152 | 141 | 56.2 | | | | | | | | | | |
| | C | 114 | 234 | 188 | 74.9 | | | | | | | | | | |
| | D | 85 | 186 | 157 | 62.5 | | | | | | | | | | |
| | E | 120 | 191 | 177 | 70.5 | | | | | | | | | | |

Initial mean density per vial = 251 embryos

*A bold asterisk indicates a significant statistical reduction compared to the Lab Control (unequal variance t-test $p < 0.05$, untransformed data per SCCWRP Bight instructions).

Appendix Table C-2. *Mytilus galloprovincialis* 48-Hour Larval Survival & Development Results

AMEC POLA/POLB Bight '13

Batch #2 Test Initiation: July 20, 2013

| Site ID | Rep | Rand # | # Counted | # Normal | Percent Normal Alive | Mean Percent Normal Alive | SD | Site ID | Rep | Rand # | # Counted | # Normal | Percent Normal Alive | Mean Percent Normal Alive | SD |
|-----------------------|----------------|--------|-----------|----------|----------------------|---------------------------|-----|-----------------|-----|------------------|-----------|----------|----------------------|---------------------------|----|
| Lab Control #1 | A | 149 | 271 | 258 | 82.4 | 75.0 | 5.4 | B13-8397 | A | 125 | 269 | 257 | 82.1 | 82.8 | 11 |
| | B | 132 | 247 | 231 | 73.8 | | | | B | 136 | 232 | 220 | 70.3 | | |
| | C | 133 | 256 | 244 | 78.0 | | | | C | 146 | 302 | 296 | 94.6 | | |
| | D | 158 | 232 | 213 | 68.1 | | | | D | 147 | 243 | 228 | 72.8 | | |
| | E | 121 | 242 | 228 | 72.8 | | | | E | 139 | 311 | 295 | 94.2 | | |
| B13-8401 | A | 145 | 88 | 80 | 25.6 | 60.3 | 20 | TMDL-4CS | A | 154 | 355 | 338 | 108.0 | 90.2 | 12 |
| | B | 131 | 254 | 236 | 75.4 | | | | B | 138 ^a | 543 | 512 | 81.8 | | |
| | C | 129 | 213 | 187 | 59.7 | | | | C | 148 | 269 | 256 | 81.8 | | |
| | D | 151 | 236 | 227 | 72.5 | | | | D | 141 | 273 | 257 | 82.1 | | |
| | E | 157 | 231 | 214 | 68.4 | | | | E | 155 | 325 | 305 | 97.4 | | |
| B13-8399 | A | 124 | 259 | 241 | 77.0 | 79.1 | 13 | B13-8396 | A | 140 | 176 | 168 | 53.7 | 75.2 | 15 |
| | B | 160 | 295 | 277 | 88.5 | | | | B | 135 | 271 | 267 | 85.3 | | |
| | C | 127 | 238 | 228 | 72.8 | | | | C | 143 | 299 | 288 | 92.0 | | |
| | D | 150 | 209 | 195 | 62.3 | | | | D | 142 | 227 | 214 | 68.4 | | |
| | E | 130 | 309 | 297 | 94.9 | | | | E | 122 | 275 | 240 | 76.7 | | |
| TMDL-3TB | A | 123 | 258 | 247 | 78.9 | 70.3 | 16 | B13-8384 | A | 156 | 241 | 237 | 75.7 | 84.7 | 11 |
| | B | 126 | 242 | 225 | 71.9 | | | | B | 128 | 237 | 220 | 70.3 | | |
| | C | 134 | 203 | 190 | 60.7 | | | | C | 152 | 305 | 294 | 93.9 | | |
| | D | 137 | 295 | 282 | 90.1 | | | | D | 153 | 309 | 289 | 92.3 | | |
| | E ^a | 159 | 172 | 156 | 49.8 | | | | E | 144 | 299 | 285 | 91.1 | | |

Initial mean density per vial = 313 embryos

***A bold asterisk** indicates a significant statistical reduction compared to the Lab Control (unequal variance t-test $p < 0.05$, untransformed data per SCCWRP Bight instructions).

^a Replicate initiated twice; initial density doubled in the calculation to account for added embryos.

^b Replicate was calculated as a statistical outlier using Dixon's test, but not excluded from analysis.

Appendix Table C-2 (continued). *Mytilus galloprovincialis* 48-Hour Larval Survival & Development Results

AMEC POLA/POLB Bight '13

Batch #2 Test Initiation: July 20, 2013

| Site ID | Rep | Rand # | # Counted | # Normal | Percent Normal Alive | Mean Percent Normal Alive | SD | Site ID | Rep | Rand # | # Counted | # Normal | Percent Normal Alive | Mean Percent Normal Alive | SD |
|-----------------------|----------------|--------|-----------|----------|----------------------|---------------------------|-----|-----------------|----------------|--------|-----------|----------|----------------------|---------------------------|-----|
| Lab Control #2 | A | 191 | 273 | 259 | 83.5 | 74.8 | 22 | B13-8302 | A | 201 | 222 | 213 | 68.7 | 82.8 | 13 |
| | B | 162 | 198 | 184 | 59.4 | | | | B | 197 | 329 | 310 | 100.0 | | |
| | C | 168 | 306 | 292 | 94.2 | | | | C | 170 | 264 | 249 | 80.3 | | |
| | D | 192 | 298 | 285 | 91.9 | | | | D | 174 | 246 | 230 | 74.2 | | |
| | E | 167 | 148 | 139 | 44.8 | | | | E | 186 | 288 | 282 | 91.0 | | |
| B13-8340 | A | 205 | 252 | 238 | 76.8 | 72.5 | 8.6 | B13-8365 | A | 177 | 307 | 296 | 95.5 | 95.4 | 7.2 |
| | B | 203 | 240 | 230 | 74.2 | | | | B | 176 | 279 | 268 | 86.5 | | |
| | C | 190 | 250 | 234 | 75.5 | | | | C | 184 | 318 | 295 | 95.2 | | |
| | D ^b | 179 | 187 | 178 | 57.4 | | | | D | 195 | 303 | 289 | 93.2 | | |
| | E | 180 | 257 | 243 | 78.4 | | | | E | 187 | 346 | 330 | 106.5 | | |
| B13-8367 | A | 204 | 258 | 254 | 81.9 | 84.0 | 12 | B13-8306 | A | 165 | 262 | 249 | 80.3 | 68.1 | 19 |
| | B | 173 | 218 | 210 | 67.7 | | | | B ^b | 202 | 115 | 110 | 35.5 | | |
| | C | 183 | 329 | 318 | 102.6 | | | | C | 198 | 270 | 253 | 81.6 | | |
| | D | 178 | 269 | 257 | 82.9 | | | | D | 164 | 229 | 214 | 69.0 | | |
| | E | 185 | 279 | 263 | 84.8 | | | | E | 189 | 241 | 230 | 74.2 | | |
| TMDL-2FH | A | 196 | 266 | 259 | 83.5 | 88.5 | 7.8 | TMDL-1CH | A | 161 | 194 | 175 | 56.5 | 67.4 | 12 |
| | B | 169 | 264 | 253 | 81.6 | | | | B | 171 | 178 | 162 | 52.3 | | |
| | C | 199 | 297 | 292 | 94.2 | | | | C | 182 | 257 | 241 | 77.7 | | |
| | D | 175 | 318 | 308 | 99.4 | | | | D | 188 | 253 | 236 | 76.1 | | |
| | E | 193 | 273 | 260 | 83.9 | | | | E | 200 | 251 | 231 | 74.5 | | |
| B13-8316 | A | 166 | 211 | 202 | 65.2 | 76.5 | 17 | | | | | | | | |
| | B | 194 | 289 | 280 | 90.3 | | | | | | | | | | |
| | C | 163 | 194 | 181 | 58.4 | | | | | | | | | | |
| | D | 181 | 301 | 286 | 92.3 | | | | | | | | | | |
| | E ^a | 172 | -- | -- | -- | | | | | | | | | | |

Initial mean density per vial =310 embryos

***A bold asterisk** indicates a significant statistical reduction compared to the Lab Control (unequal variance t-test p<0.05, untransformed data per SCCWRP Bight instructions).

^a Replicate not initiated; excluded from analysis

^b Replicate was calculated as a statistical outlier using Dixon's test, but not excluded from analysis.

**Appendix Table B-3. Statistical Analysis Results of *Eohaustorius estuarius* 10-day Survival
AMEC POLA/POLB Bight '13**

| Batch #1 Site ID | Statistically Significant (Y/N) | p-value | Batch #2 Site ID | Statistically Significant (Y/N) | p-value |
|-----------------------------|--|----------------|-----------------------------|--|--------------------|
| B13-8374 | Y | 0.0185 | B13-8401 | N | 0.0963 |
| B13-8371 | Y | 0.0495 | B13-8399 | N | 0.2714 |
| B13-8382 | N | 0.1086 | TMDL-3TB | N | 0.2786 |
| B13-8363 | N | 0.2858 | B13-8397 | N | 0.1143 |
| B13-8360 | N | 0.3121 | TMDL-4CS | N | >0.05 ^a |
| B13-8356 | N | 0.2434 | B13-8396 | N | 0.4893 |
| B13-8347 | Y | 0.0319 | B13-8384 | N | 0.0680 |
| B13-8333 | N | 0.3847 | B13-8340 | N | 0.4171 |
| B13-8322 | N | 0.1957 | B13-8367 | N | 0.2205 |
| B13-8349 | Y | 0.0478 | TMDL-2FH | N | 0.1198 |
| B13-8326 | N | 0.2383 | B13-8316 | N | 0.4474 |
| B13-8318 | N | 0.4865 | B13-8302 | N | 0.2495 |
| B13-8310 | N | 0.1335 | B13-8365 | N | 0.0569 |
| B13-8304 | N | 0.1569 | B13-8306 | N | 0.3109 |
| B13-8308 | Y | 0.0211 | TMDL-1CH | N | 0.2664 |

Sites in **bold** are significant reduced in percent normal-alive relative to the corresponding lab control (p<0.05).

^a Sample TMDL-4CS was significantly greater than the control (p = 0.0247), not significantly reduced from control.

Appendix D

Laboratory Qualifier Codes

Appendix E

Ammonia Tables and Raw Data

Appendix Table E-1. Total and Un-ionized Ammonia Concentrations in Sediment Porewater at Test Initiation

| Batch #1/ Sample ID | Total Ammonia (mg/L) | Un-ionized Ammonia (mg/L) | Batch #2/ Sample ID | Total Ammonia (mg/L) | Un-ionized Ammonia (mg/L) |
|----------------------------------|----------------------------|---------------------------------|---------------------------|----------------------------|---------------------------------|
| Lab Control #1 | <0.5 | <0.004 | Lab Control #1 | <0.5 | <0.006 |
| Fine Grain Control | 6.0 | 0.048 | Fine Grain Control | 6.8 | 0.029 |
| B13-8374 | 2.3 | 0.012 | B13-8401 | 5.5 | 0.021 |
| B13-8371 | 7.0 | 0.033 | B13-8399 | 3.4 | 0.014 |
| B13-8382 | 6.0 | 0.028 | TMDL-3TB | 3.2 | 0.024 |
| B13-8363 | 3.7 | 0.018 | B13-8397 | 3.2 | 0.016 |
| B13-8360 | 5.1 | 0.029 | TMDL-4CS | 4.6 | 0.021 |
| B13-8356 | 2.2 | 0.011 | B13-8396 | 4.0 | 0.018 |
| B13-8347 | 2.4 | 0.011 | B13-8384 | 2.8 | 0.010 |
| Lab Control #2 | NM | NM | Lab Control #2 | <0.5 | <0.006 |
| B13-8333 | 5.2 | 0.032 | B13-8340 | 3.3 | 0.011 |
| B13-8322 | 2.2 | 0.013 | B13-8367 | 3.7 | 0.022 |
| B13-8349 | 3.1 | 0.015 | TMDL-2FH | 3.0 | 0.011 |
| B13-8326 | 2.7 | 0.012 | B13-8316 | 4.5 | 0.016 |
| B13-8318 | 2.6 | 0.012 | B13-8302 | 5.5 | 0.022 |
| B13-8310 | 2.8 | 0.015 | B13-8365 | 5.0 | 0.019 |
| B13-8304 | 2.9 | 0.015 | B13-8306 | 5.6 | 0.031 |
| B13-8308 | 2.8 | 0.012 | TMDL-1CH | 3.9 | 0.018 |
| Threshold Effect Levels | | | | | |
| Species | Ammonia NOEC (mg/L) | | | | |
| | Total | | Un-ionized | | |
| <i>Eohaustorius</i> ^a | 60 | | 0.8 | | |

^a No Observed Effect Concentration (NOEC) values from EPA 1994 & Kohn et al. 1994.

NM = not measured

Appendix Table E-2. Total and Un-ionized Ammonia Concentrations in Solid-Phase Amphipod Toxicity Tests – Overlying Water

| Test Batch | Sample | Total Ammonia (mg/L) | | Un-ionized Ammonia (mg/L) | |
|--|--------------------|----------------------|------------|---------------------------|--------|
| | | Day 0 | Day 10 | Day 0 | Day 10 |
| Batch #1 | Lab Control #1 | <0.5 | <0.5 | <0.010 | <0.013 |
| | Fine Grain Control | 0.6 | 1.0 | 0.014 | 0.026 |
| | B13-8374 | <0.5 | <0.5 | <0.010 | <0.011 |
| | B13-8371 | 0.9 | <0.5 | 0.017 | <0.013 |
| | B13-8382 | 0.6 | <0.5 | 0.012 | <0.014 |
| | B13-8363 | <0.5 | <0.5 | <0.010 | <0.012 |
| | B13-8360 | 1.0 | <0.5 | 0.022 | <0.013 |
| | B13-8356 | 0.6 | <0.5 | 0.012 | <0.015 |
| | B13-8347 | 1.0 | <0.5 | 0.022 | <0.014 |
| | Lab Control #2 | 0.7 | <0.5 | 0.013 | <0.014 |
| | B13-8333 | 0.5 | <0.5 | 0.010 | <0.011 |
| | B13-8322 | <0.5 | <0.5 | <0.010 | <0.011 |
| | B13-8349 | 0.6 | <0.5 | 0.012 | <0.012 |
| | B13-8326 | 0.7 | <0.5 | 0.015 | <0.013 |
| | B13-8318 | 0.6 | <0.5 | 0.013 | <0.013 |
| | B13-8310 | 1.0 | <0.5 | 0.020 | <0.012 |
| | B13-8304 | <0.5 | <0.5 | <0.011 | <0.013 |
| B13-8308 | 0.5 | <0.5 | 0.010 | <0.012 | |
| Batch #2 | Lab Control #1 | <0.5 | <0.5 | <0.011 | <0.012 |
| | Fine Grain Control | 0.7 | 1.2 | 0.013 | 0.027 |
| | B13-8401 | 0.6 | <0.5 | 0.012 | <0.012 |
| | B13-8399 | <0.5 | <0.5 | <0.012 | <0.013 |
| | TMDL-3TB | <0.5 | <0.5 | <0.011 | <0.013 |
| | B13-8397 | <0.5 | <0.5 | <0.011 | <0.010 |
| | TMDL-4CS | 1.1 | 1.1 | 0.022 | 0.038 |
| | B13-8396 | <0.5 | <0.5 | <0.011 | <0.013 |
| | B13-8384 | 0.6 | <0.5 | 0.013 | <0.014 |
| | Lab Control #2 | <0.5 | <0.5 | <0.011 | <0.014 |
| | B13-8340 | 0.5 | <0.5 | 0.010 | <0.011 |
| | B13-8367 | 0.9 | 1.1 | 0.022 | 0.030 |
| | TMDL-2FH | <0.5 | <0.5 | <0.011 | <0.016 |
| | B13-8316 | <0.5 | 0.5 | <0.011 | 0.011 |
| | B13-8302 | 0.7 | <0.5 | 0.014 | <0.015 |
| | B13-8365 | 0.6 | 0.6 | 0.013 | 0.013 |
| | B13-8306 | 0.5 | <0.5 | 0.010 | <0.017 |
| TMDL-1CH | 0.5 | <0.5 | 0.011 | <0.011 | |
| <i>Eohaustorius</i> Threshold Effect Levels^a | | | | | |
| Ammonia NOEC (mg/L) | | | | | |
| Total | | | Un-ionized | | |
| 60 | | | 0.8 | | |

^a NOEC values from EPA 1994 & Kohn et al 1994

Appendix Table E-3. Total and Un-ionized Ammonia Concentrations in Sediment-Water Interface Toxicity Tests – Overlying Water

| Test Batch | Sample | Total Ammonia (mg/L) | | Un-ionized Ammonia (mg/L) | |
|--|----------------|----------------------|-------------------|---------------------------|--------|
| | | Day 0 | Day 2 | Day 0 | Day 2 |
| Batch #1 | Lab Control #1 | <0.5 | <0.5 | <0.010 | <0.012 |
| | B13-8374 | 1.3 | <0.5 | 0.023 | <0.011 |
| | B13-8371 | 1.2 | 1.6 | 0.023 | 0.038 |
| | B13-8382 | 1.2 | 2.0 | 0.025 | 0.044 |
| | B13-8363 | 1.0 | 0.7 | 0.021 | 0.013 |
| | B13-8360 | 1.5 | 2.1 | 0.032 | 0.050 |
| | B13-8356 | 0.7 | <0.5 | 0.015 | <0.011 |
| | B13-8347 | <0.5 | <0.5 | <0.010 | <0.009 |
| | Lab Control #2 | <0.5 | <0.5 | <0.010 | <0.012 |
| | B13-8333 | 1.1 | 1.2 | 0.022 | 0.026 |
| | B13-8322 | 1.1 | <0.5 | 0.022 | <0.010 |
| | B13-8349 | 1.3 | 0.7 | 0.027 | 0.015 |
| | B13-8326 | 1.0 | 0.9 | 0.017 | 0.017 |
| | B13-8318 | 0.7 | <0.5 | 0.012 | <0.010 |
| | B13-8310 | 1.2 | <0.5 | 0.022 | <0.009 |
| | B13-8304 | 1.1 | 0.7 | 0.016 | 0.014 |
| | B13-8308 | 1.0 | 0.6 | 0.018 | 0.012 |
| Batch #2 | Lab Control #1 | <0.5 | <0.5 | <0.011 | <0.012 |
| | B13-8401 | 0.6 | <0.5 | 0.012 | <0.012 |
| | B13-8399 | <0.5 | <0.5 | <0.012 | <0.013 |
| | TMDL-3TB | <0.5 | <0.5 | <0.011 | <0.013 |
| | B13-8397 | <0.5 | <0.5 | <0.011 | <0.010 |
| | TMDL-4CS | 1.1 | 1.1 | 0.022 | 0.038 |
| | B13-8396 | <0.5 | <0.5 | <0.011 | <0.013 |
| | B13-8384 | 0.6 | <0.5 | 0.013 | <0.014 |
| | Lab Control #2 | <0.5 | <0.5 | <0.011 | <0.014 |
| | B13-8340 | 0.5 | <0.5 | 0.010 | <0.011 |
| | B13-8367 | 0.9 | 1.1 | 0.022 | 0.030 |
| | TMDL-2FH | <0.5 | <0.5 | <0.011 | <0.016 |
| | B13-8316 | <0.5 | 0.5 | <0.011 | 0.011 |
| | B13-8302 | 0.7 | <0.5 | 0.014 | <0.015 |
| | B13-8365 | 0.6 | 0.6 | 0.013 | 0.013 |
| | B13-8306 | 0.5 | <0.5 | 0.010 | <0.017 |
| | TMDL-1CH | 0.5 | <0.5 | 0.011 | <0.011 |
| Mytilus Threshold Effect Levels | | | | | |
| Ammonia NOEC (mg/L) | | | | | |
| Total | | | Un-ionized | | |
| 4.0 ^a | | | 0.05 ^b | | |

^a Tang et al, 1997

^b Marine Pollution Studies Laboratory, unpublished data



November 01, 2013

Chris Stransky
 AMEC
 9210 Sky Park Court
 Suite 200
 San Diego, CA 92123-

Project Name: POLA/POLB Harbor Toxics TMDL and Bight '13
 Physis Project ID: 1307001-001

Dear Chris,

Enclosed are the analytical results for samples submitted to PHYSIS Environmental Laboratories, Inc. (PHYSIS) on 7/13/2013. A total of 32 samples were received for analysis in accordance with the attached chain of custody (COC). Per the COC, the samples were analyzed for:

| Conventionals |
|---|
| Total Sulfides by Plumb, 1981/TERL |
| Percent Solids by SM 2540B |
| Ammonia as N by SM 4500-NH ₃ D |
| Elements |
| Trace Metals by EPA 6020 |
| Trace Mercury by EPA 245.7 |
| Total Phosphorus by EPA 6020 |
| Organics |
| Toxaphene w/ OCPs by EPA 8270C-NCI |
| Synthetic Pyrethroid Pesticides by EPA 8270C-NCI |
| Polynuclear Aromatic Hydrocarbons by EPA 8270C |
| PBDE Congeners by EPA 8270C-NCI |
| Organochlorine Pesticides & PCB Congeners/Aroclors by EPA 8270C |
| Fipronil & Degradates by EPA 8270C-NCI |
| Subcontract |
| Total Organic Carbon by SM 5310 B |
| Total Nitrogen by SM 4500-N |

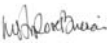
Analytical results in this report apply only to samples submitted to PHYSIS in accordance with the COC and are intended to be considered in their entirety.

Please feel free to contact me at any time with any questions. PHYSIS appreciates the opportunity



to provide you with our analytical and support services.

Regards,


Misty Mercier
Extension 202
714-335-5918 cell
mistymercier@physislabs.com

ABBREVIATIONS and ACRONYMS

| | |
|------|--|
| QM | Quality Manual |
| QA | Quality Assurance |
| QC | Quality Control |
| MDL | method detection limit |
| RL | reporting limit |
| R1 | project sample |
| R2 | project sample replicate |
| MS1 | matrix spike |
| MS2 | matrix spike replicate |
| B1 | procedural blank |
| B2 | procedural blank replicate |
| BS1 | blank spike |
| BS2 | blank spike replicate |
| LCS1 | laboratory control spike |
| LCS2 | laboratory control spike replicate |
| LCM1 | laboratory control material |
| LCM2 | laboratory control material replicate |
| CRM1 | certified reference material |
| CRM2 | certified reference material replicate |
| RPD | relative percent difference |
| LMW | low molecular weight |
| HMW | high molecular weight |

QUALITY ASSURANCE SUMMARY

LABORATORY BATCH: Physis' QM defines a laboratory batch as a group of 20 or fewer project samples of similar matrix, processed together under the same conditions and with the same reagents. QC samples are associated with each batch and are used to assess the validity of the sample analyses.

PROCEDURAL BLANK: Laboratory contamination introduced during method use was assessed through the analysis of procedural blanks at a minimum frequency of one per batch. Physis' QM requires that all procedural blanks be below 10 times the MDL and all detectable constituents in the procedural blanks be flagged in the project sample results with a B qualifier.

ACCURACY: Accuracy of analytical measurements is the degree of closeness based on percent recovery calculations between measured values and the actual or true value and includes a combination of reproducibility error and systematic bias due to sampling and analytical operations. Accuracy of the project data was indicated by analysis of MS, BS, LCS, LCM, CRM, and/or surrogate spikes on a minimum frequency of one per batch. Physis' QM requires that 95% of the target compounds greater than 10 times the MDL be within the specified acceptance limits.

PRECISION: Precision is the agreement among a set of replicate measurements without assumption of knowledge of the true value and is based on RPD calculations between repeated values. Precision of the project data was determined by analysis of replicate MS₁/MS₂, BS₁/BS₂, LCS₁/LCS₂, LCM₁/LCM₂, CRM₁/CRM₂, surrogate spikes and/or replicate project sample analysis (R₁/R₂) on a minimum frequency of one per batch. Physis' QM requires that for 95% of the compounds greater than 10 times the MDL, the percent RPD should be within the specified acceptance range.

MATRIX SPIKES: MS samples were employed to assess the effect a particular project sample matrix has on the accuracy of a measurement. It is prepared by adding a known amount of the target analyte(s) to an aliquot of the project sample. Matrix spikes indicate the bias of analytical measurements due to chemical interferences inherent in the sample matrix. If the matrix spike recovery does not fall within the specified acceptance limits, it may be an indication of sample matrix interference in the specific project sample used for the MS. Intrinsic target analyte concentration in the specific project sample can also significantly impact MS recovery.

BLANK SPIKES: BS demonstrates performance of the preparation and analytical methods on a clean matrix void of potential matrix related interferences. The BS is performed in laboratory deionized water, making these recoveries a better indicator of the efficiency of the laboratory method per se.

CERTIFIED REFERENCE MATERIALS: CRMs are pre-homogenized materials of various matrices for which analytical information has been determined and certified by a recognized authority. These are used to provide a quantitative assessment of the accuracy of a preparation and analytical method. CRMs are analyzed to provide evidence that the laboratory method produces results that are comparable to those obtained by an independent organization.

SURROGATES: Where CRMs are unavailable, target analyte recovery can be assessed by monitoring added surrogate compounds/elements. A surrogate is a pure analyte unlikely to be found in any project sample and most often used with organic analytical procedures. Percent recovery is calculated for each surrogate and is used to monitor method performance within each discrete sample and is indicative of the procedure's ability to recover the actual analytes of interest.

HOLDING TIME: Method recommended holding times are the length of time a project sample can be stored

under specific conditions after collection and prior to analysis without significantly affecting the analyte's concentration. Holding times can be extended if preservation techniques are employed to reduce biodegradation, volatilization, oxidation, sorption, precipitation, and other physical and chemical processes. Physis' QM requires that all samples analyzed beyond the method recommended holding time be flagged in the sample results with an H qualifier.

TOTAL/DISSOLVED FRACTION: In some instances, the results for the dissolved fraction may be higher than the total fraction for a particular analyte (e.g. trace metals). This is typically caused by the analytical variation for each result and indicates that the target analyte is primarily in the dissolved phase, within the sample.

PHYSIS QUALIFIER CODES

| CODE | DEFINITION |
|-------------|---|
| * | see Case Narrative |
| ND | analyte not detected at or above the MDL |
| B | analyte was detected in the procedural blank greater than 10 times the MDL |
| E | analyte concentration exceeds the upper limit of the linear calibration range, reported value is estimated |
| H | sample received and/or analyzed past the recommended holding time |
| J | analyte was detected at a concentration below the RL and above the MDL, reported value is estimated |
| N | insufficient sample, analysis could not be performed |
| M | analyte was outside the specified recovery and/or RPD acceptance limits due to matrix interference. The associated B/BS were within limits, therefore the sample data was reported without further clarification |
| SH | analyte concentration in the project sample exceeded the spike concentration, therefore MS recovery and/or RPD acceptance limits do not apply |
| SL | analyte results for R1 and/or R2 were lower than 10 times the MDL, therefore RPD acceptance limits do not apply |
| NH | project sample was heterogeneous and sample homogeneity could not be readily achieved using routine laboratory practices, therefore MS recovery and/or RPD were outside the specified acceptance limits |
| R | Physis' QM allows for 5% of the target compounds greater than 10 times the MDL to be outside the specified acceptance limits for precision and/or accuracy. This is often due to random error and does not indicate any significant problems with the analysis of these project samples |



CASE NARRATIVE

QUALIFIER NOTES

In addition to the use of analyte specific Physis Qualifier Codes where applicable, the following were also noted.

PAHS SRM: One LMW PAH (Naphthalene) was below the specified acceptance limits in one or more SRM 1944 as a result of excessive vacuum of the rotovap during sample concentration prior to analysis.

ELEMENTS CRM: Five elements, Aluminum (Al), Antimony (Sb), Beryllium (Be), Chromium (Cr) and Iron (Fe) were above the specified acceptance limits in one or more CRM - RTC 016-050 and/or CRM - ERA 540. This occurred as a result of a more rigorous digestion employed by Physis, which causes a higher yield for some lithogenous elements. These values are in agreement with past internal results for CRM - RTC 016-050 and CRM - ERA 540.

PHYSICS

PANALYTICAL

REPORT

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CA ELAP #2769

Aroclor PCBs

ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|----------------------------|-------------------|-------------------------|-----|---------------------------|--------------|----------------------------|
| Sample ID: 21733-R1 | B13-8382 | Matrix: Sediment | | Sampled: 10-Jul-13 | 11:04 | Received: 13-Jul-13 |
| | Method: EPA 8270C | Batch ID: O-6001 | | Prepared: 09-Aug-13 | | Analyzed: 30-Aug-13 |
| Aroclor 1016 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1221 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1232 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1242 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1248 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1254 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1260 | NA | ND | 10 | 20 | ng/dry g | |
| Sample ID: 21734-R1 | B13-8374 | Matrix: Sediment | | Sampled: 10-Jul-13 | 14:28 | Received: 13-Jul-13 |
| | Method: EPA 8270C | Batch ID: O-6001 | | Prepared: 09-Aug-13 | | Analyzed: 30-Aug-13 |
| Aroclor 1016 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1221 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1232 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1242 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1248 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1254 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1260 | NA | ND | 10 | 20 | ng/dry g | |
| Sample ID: 21735-R1 | B13-8371 | Matrix: Sediment | | Sampled: 10-Jul-13 | 12:03 | Received: 13-Jul-13 |
| | Method: EPA 8270C | Batch ID: O-6001 | | Prepared: 09-Aug-13 | | Analyzed: 30-Aug-13 |
| Aroclor 1016 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1221 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1232 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1242 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1248 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1254 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1260 | NA | ND | 10 | 20 | ng/dry g | |
| Sample ID: 21736-R1 | B13-8363 | Matrix: Sediment | | Sampled: 10-Jul-13 | 13:38 | Received: 13-Jul-13 |
| | Method: EPA 8270C | Batch ID: O-6001 | | Prepared: 09-Aug-13 | | Analyzed: 30-Aug-13 |
| Aroclor 1016 | NA | ND | 10 | 20 | ng/dry g | |



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CA ELAP #2769

Aroclor PCBs

ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|--------------|----------|--------|-----|----|----------|---------|
| Aroclor 1221 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1232 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1242 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1248 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1254 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1260 | NA | ND | 10 | 20 | ng/dry g | |

Sample ID: 21737-R1

B13-8360

Method: EPA 8270C

Matrix: Sediment

Batch ID: O-6001

Sampled: 10-Jul-13

15:30

Prepared: 09-Aug-13

Received: 13-Jul-13

Analyzed: 30-Aug-13

| | | | | | | |
|--------------|----|----|----|----|----------|--|
| Aroclor 1016 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1221 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1232 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1242 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1248 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1254 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1260 | NA | ND | 10 | 20 | ng/dry g | |

Sample ID: 21738-R1

B13-8349

Method: EPA 8270C

Matrix: Sediment

Batch ID: O-6001

Sampled: 10-Jul-13

9:51

Prepared: 09-Aug-13

Received: 13-Jul-13

Analyzed: 30-Aug-13

| | | | | | | |
|--------------|----|----|----|----|----------|--|
| Aroclor 1016 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1221 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1232 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1242 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1248 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1254 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1260 | NA | ND | 10 | 20 | ng/dry g | |

Sample ID: 21739-R1

B13-8326

Method: EPA 8270C

Matrix: Sediment

Batch ID: O-6001

Sampled: 10-Jul-13

8:28

Prepared: 09-Aug-13

Received: 13-Jul-13

Analyzed: 30-Aug-13

| | | | | | | |
|--------------|----|----|----|----|----------|--|
| Aroclor 1016 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1221 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1232 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1242 | NA | ND | 10 | 20 | ng/dry g | |



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CA ELAP #2769

Aroclor PCBs

ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|--------------|----------|--------|-----|----|----------|---------|
| Aroclor 1248 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1254 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1260 | NA | ND | 10 | 20 | ng/dry g | |

Sample ID: 21740-R1

B13-8367

Method: EPA 8270C

Matrix: Sediment

Batch ID: O-6001

Sampled: 11-Jul-13

14:10

Received: 13-Jul-13

Analyzed: 30-Aug-13

| | | | | | | |
|--------------|----|----|----|----|----------|--|
| Aroclor 1016 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1221 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1232 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1242 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1248 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1254 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1260 | NA | ND | 10 | 20 | ng/dry g | |

Sample ID: 21741-R1

B13-8302

Method: EPA 8270C

Matrix: Sediment

Batch ID: O-6001

Sampled: 11-Jul-13

9:29

Received: 13-Jul-13

Analyzed: 30-Aug-13

| | | | | | | |
|--------------|----|----|----|----|----------|--|
| Aroclor 1016 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1221 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1232 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1242 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1248 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1254 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1260 | NA | ND | 10 | 20 | ng/dry g | |

Sample ID: 21742-R1

B13-8304

Method: EPA 8270C

Matrix: Sediment

Batch ID: O-6001

Sampled: 11-Jul-13

16:24

Received: 13-Jul-13

Analyzed: 30-Aug-13

| | | | | | | |
|--------------|----|----|----|----|----------|--|
| Aroclor 1016 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1221 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1232 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1242 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1248 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1254 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1260 | NA | ND | 10 | 20 | ng/dry g | |



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Aroclor PCBs

ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|----------------------------|-------------------|-------------------------|-----|---------------------------------|----------|----------------------------|
| Sample ID: 21743-R1 | | Matrix: Sediment | | Sampled: 11-Jul-13 13:00 | | Received: 13-Jul-13 |
| | B13-8306 | | | | | |
| | Method: EPA 8270C | Batch ID: O-6003 | | Prepared: 15-Aug-13 | | Analyzed: 30-Aug-13 |
| Aroclor 1016 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1221 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1232 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1242 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1248 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1254 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1260 | NA | ND | 10 | 20 | ng/dry g | |
| Sample ID: 21744-R1 | | Matrix: Sediment | | Sampled: 11-Jul-13 17:06 | | Received: 13-Jul-13 |
| | B13-8308 | | | | | |
| | Method: EPA 8270C | Batch ID: O-6003 | | Prepared: 15-Aug-13 | | Analyzed: 30-Aug-13 |
| Aroclor 1016 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1221 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1232 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1242 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1248 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1254 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1260 | NA | ND | 10 | 20 | ng/dry g | |
| Sample ID: 21745-R1 | | Matrix: Sediment | | Sampled: 11-Jul-13 17:51 | | Received: 13-Jul-13 |
| | B13-8310 | | | | | |
| | Method: EPA 8270C | Batch ID: O-6005 | | Prepared: 24-Aug-13 | | Analyzed: 06-Sep-13 |
| Aroclor 1016 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1221 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1232 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1242 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1248 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1254 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1260 | NA | ND | 10 | 20 | ng/dry g | |
| Sample ID: 21746-R1 | | Matrix: Sediment | | Sampled: 11-Jul-13 10:23 | | Received: 13-Jul-13 |
| | B13-8316 | | | | | |
| | Method: EPA 8270C | Batch ID: O-6005 | | Prepared: 24-Aug-13 | | Analyzed: 06-Sep-13 |
| Aroclor 1016 | NA | ND | 10 | 20 | ng/dry g | |



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Aroclor PCBs

ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|--------------|----------|--------|-----|----|----------|---------|
| Aroclor 1221 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1232 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1242 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1248 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1254 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1260 | NA | ND | 10 | 20 | ng/dry g | |

Sample ID: 21747-R1

TMDL2-FH

Method: EPA 8270C

Matrix: Sediment

Batch ID: O-6005

Sampled: 11-Jul-13

15:25

Received: 13-Jul-13

Analyzed: 06-Sep-13

| | | | | | | |
|--------------|----|----|----|----|----------|--|
| Aroclor 1016 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1221 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1232 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1242 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1248 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1254 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1260 | NA | ND | 10 | 20 | ng/dry g | |

Sample ID: 21748-R1

TMDL1-CH

Method: EPA 8270C

Matrix: Sediment

Batch ID: O-6005

Sampled: 11-Jul-13

12:07

Received: 13-Jul-13

Analyzed: 06-Sep-13

| | | | | | | |
|--------------|----|----|----|----|----------|--|
| Aroclor 1016 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1221 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1232 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1242 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1248 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1254 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1260 | NA | ND | 10 | 20 | ng/dry g | |

Sample ID: 21749-R1

TMDL5-DT

Method: EPA 8270C

Matrix: Sediment

Batch ID: O-6005

Sampled: 11-Jul-13

15:25

Received: 13-Jul-13

Analyzed: 06-Sep-13

| | | | | | | |
|--------------|----|----|----|----|----------|--|
| Aroclor 1016 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1221 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1232 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1242 | NA | ND | 10 | 20 | ng/dry g | |



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Aroclor PCBs

ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|--------------|----------|--------|-----|----|----------|---------|
| Aroclor 1248 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1254 | NA | 14 | 10 | 20 | ng/dry g | J |
| Aroclor 1260 | NA | ND | 10 | 20 | ng/dry g | |

Sample ID: 21750-R1

B13-8401

Method: EPA 8270C

Matrix: Sediment

Batch ID: O-6005

Sampled: 12-Jul-13

14:42

Prepared: 24-Aug-13

Received: 13-Jul-13

Analyzed: 06-Sep-13

| | | | | | | |
|--------------|----|----|----|----|----------|--|
| Aroclor 1016 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1221 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1232 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1242 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1248 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1254 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1260 | NA | ND | 10 | 20 | ng/dry g | |

Sample ID: 21751-R1

B13-8399

Method: EPA 8270C

Matrix: Sediment

Batch ID: O-6005

Sampled: 12-Jul-13

13:55

Prepared: 24-Aug-13

Received: 13-Jul-13

Analyzed: 06-Sep-13

| | | | | | | |
|--------------|----|----|----|----|----------|--|
| Aroclor 1016 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1221 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1232 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1242 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1248 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1254 | NA | 23 | 10 | 20 | ng/dry g | |
| Aroclor 1260 | NA | ND | 10 | 20 | ng/dry g | |

Sample ID: 21752-R1

B13-8384

Method: EPA 8270C

Matrix: Sediment

Batch ID: O-6005

Sampled: 12-Jul-13

9:13

Prepared: 24-Aug-13

Received: 13-Jul-13

Analyzed: 06-Sep-13

| | | | | | | |
|--------------|----|----|----|----|----------|--|
| Aroclor 1016 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1221 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1232 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1242 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1248 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1254 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1260 | NA | ND | 10 | 20 | ng/dry g | |



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CA ELAP #2769

Aroclor PCBs

ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|----------------------------|----------|-------------------|-------------------------|---------------------------|--------------|----------------------------|
| Sample ID: 21753-R1 | | B13-8397 | Matrix: Sediment | Sampled: 12-Jul-13 | 11:20 | Received: 13-Jul-13 |
| | | Method: EPA 8270C | Batch ID: O-6001 | Prepared: 09-Aug-13 | | Analyzed: 30-Aug-13 |
| Aroclor 1016 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1221 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1232 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1242 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1248 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1254 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1260 | NA | ND | 10 | 20 | ng/dry g | |
| Sample ID: 21754-R1 | | B13-8396 | Matrix: Sediment | Sampled: 12-Jul-13 | 9:58 | Received: 13-Jul-13 |
| | | Method: EPA 8270C | Batch ID: O-6003 | Prepared: 15-Aug-13 | | Analyzed: 30-Aug-13 |
| Aroclor 1016 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1221 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1232 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1242 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1248 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1254 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1260 | NA | ND | 10 | 20 | ng/dry g | |
| Sample ID: 21755-R1 | | B13-8340 | Matrix: Sediment | Sampled: 12-Jul-13 | 8:19 | Received: 13-Jul-13 |
| | | Method: EPA 8270C | Batch ID: O-6003 | Prepared: 15-Aug-13 | | Analyzed: 30-Aug-13 |
| Aroclor 1016 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1221 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1232 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1242 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1248 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1254 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1260 | NA | ND | 10 | 20 | ng/dry g | |
| Sample ID: 21756-R1 | | B13-8347 | Matrix: Sediment | Sampled: 12-Jul-13 | 15:41 | Received: 13-Jul-13 |
| | | Method: EPA 8270C | Batch ID: O-6003 | Prepared: 15-Aug-13 | | Analyzed: 30-Aug-13 |
| Aroclor 1016 | NA | ND | 10 | 20 | ng/dry g | |



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Aroclor PCBs

ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|--------------|----------|--------|-----|----|----------|---------|
| Aroclor 1221 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1232 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1242 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1248 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1254 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1260 | NA | ND | 10 | 20 | ng/dry g | |

Sample ID: 21757-R1

TMDL6-CP

Method: EPA 8270C

Matrix: Sediment

Batch ID: O-6003

Sampled: 12-Jul-13

15:41

Received: 13-Jul-13

Analyzed: 30-Aug-13

| | | | | | | |
|--------------|----|----|----|----|----------|--|
| Aroclor 1016 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1221 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1232 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1242 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1248 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1254 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1260 | NA | ND | 10 | 20 | ng/dry g | |

Sample ID: 21758-R1

TMDL4-CS

Method: EPA 8270C

Matrix: Sediment

Batch ID: O-6003

Sampled: 12-Jul-13

12:20

Received: 13-Jul-13

Analyzed: 30-Aug-13

| | | | | | | |
|--------------|----|----|----|----|----------|--|
| Aroclor 1016 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1221 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1232 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1242 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1248 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1254 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1260 | NA | ND | 10 | 20 | ng/dry g | |

Sample ID: 21759-R1

TMDL3-TB

Method: EPA 8270C

Matrix: Sediment

Batch ID: O-6003

Sampled: 12-Jul-13

15:41

Received: 13-Jul-13

Analyzed: 30-Aug-13

| | | | | | | |
|--------------|----|----|----|----|----------|--|
| Aroclor 1016 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1221 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1232 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1242 | NA | ND | 10 | 20 | ng/dry g | |



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CA ELAP #2769

Aroclor PCBs

ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|--------------|----------|--------|-----|----|----------|---------|
| Aroclor 1248 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1254 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1260 | NA | ND | 10 | 20 | ng/dry g | |

Sample ID: 21760-R1

B13-8365

Method: EPA 8270C

Matrix: Sediment

Batch ID: O-6003

Sampled: 13-Jul-13

8:37

Received: 13-Jul-13

Prepared: 15-Aug-13

Analyzed: 30-Aug-13

| | | | | | | |
|--------------|----|----|----|----|----------|--|
| Aroclor 1016 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1221 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1232 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1242 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1248 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1254 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1260 | NA | ND | 10 | 20 | ng/dry g | |

Sample ID: 21761-R1

B13-8318

Method: EPA 8270C

Matrix: Sediment

Batch ID: O-6003

Sampled: 13-Jul-13

10:57

Received: 13-Jul-13

Prepared: 15-Aug-13

Analyzed: 30-Aug-13

| | | | | | | |
|--------------|----|----|----|----|----------|--|
| Aroclor 1016 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1221 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1232 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1242 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1248 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1254 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1260 | NA | ND | 10 | 20 | ng/dry g | |

Sample ID: 21762-R1

B13-8322

Method: EPA 8270C

Matrix: Sediment

Batch ID: O-6003

Sampled: 13-Jul-13

10:11

Received: 13-Jul-13

Prepared: 15-Aug-13

Analyzed: 30-Aug-13

| | | | | | | |
|--------------|----|----|----|----|----------|--|
| Aroclor 1016 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1221 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1232 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1242 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1248 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1254 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1260 | NA | ND | 10 | 20 | ng/dry g | |



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Aroclor PCBs

ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|----------------------------|-------------------|-------------------------|-----|--------------------------------|----------|----------------------------|
| Sample ID: 21763-R1 | | Matrix: Sediment | | Sampled: 13-Jul-13 7:43 | | Received: 13-Jul-13 |
| | B13-8333 | Batch ID: O-6005 | | Prepared: 24-Aug-13 | | Analyzed: 06-Sep-13 |
| | Method: EPA 8270C | | | | | |
| Aroclor 1016 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1221 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1232 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1242 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1248 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1254 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1260 | NA | ND | 10 | 20 | ng/dry g | |
| Sample ID: 21764-R1 | | Matrix: Sediment | | Sampled: 13-Jul-13 9:22 | | Received: 13-Jul-13 |
| | B13-8356 | Batch ID: O-6005 | | Prepared: 24-Aug-13 | | Analyzed: 06-Sep-13 |
| | Method: EPA 8270C | | | | | |
| Aroclor 1016 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1221 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1232 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1242 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1248 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1254 | NA | ND | 10 | 20 | ng/dry g | |
| Aroclor 1260 | NA | ND | 10 | 20 | ng/dry g | |



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Chlorinated Pesticides

ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|----------------------------|-------------------|-------------------------|------|---------------------------|--------------|----------------------------|
| Sample ID: 21733-R1 | B13-8382 | Matrix: Sediment | | | | |
| | Method: EPA 8270C | Batch ID: O-6001 | | | | |
| | | | | Sampled: 10-Jul-13 | 11:04 | Received: 13-Jul-13 |
| | | | | Prepared: 09-Aug-13 | | Analyzed: 30-Aug-13 |
| (PCB030) | NA | 93 | | | % Recovery | |
| (PCB112) | NA | 102 | | | % Recovery | |
| (PCB198) | NA | 94 | | | % Recovery | |
| (TCMX) | NA | 90 | | | % Recovery | |
| 2,4'-DDD | NA | ND | 0.05 | 0.1 | ng/dry g | |
| 2,4'-DDE | NA | ND | 0.05 | 0.1 | ng/dry g | |
| 2,4'-DDT | NA | ND | 0.05 | 0.1 | ng/dry g | |
| 4,4'-DDD | NA | ND | 0.05 | 0.1 | ng/dry g | |
| 4,4'-DDE | NA | 1 | 0.05 | 0.1 | ng/dry g | |
| 4,4'-DDMU | NA | ND | 0.05 | 0.1 | ng/dry g | |
| 4,4'-DDT | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Aldrin | NA | ND | 0.05 | 0.1 | ng/dry g | |
| BHC-alpha | NA | ND | 0.05 | 0.1 | ng/dry g | |
| BHC-beta | NA | ND | 0.05 | 0.1 | ng/dry g | |
| BHC-delta | NA | ND | 0.05 | 0.1 | ng/dry g | |
| BHC-gamma | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Chlordane-alpha | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Chlordane-gamma | NA | ND | 0.05 | 0.1 | ng/dry g | |
| cis-Nonachlor | NA | ND | 0.05 | 0.1 | ng/dry g | |
| DCPA (Dacthal) | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Dicofol | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Dieldrin | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endosulfan Sulfate | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endosulfan-I | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endosulfan-II | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endrin | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endrin Aldehyde | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endrin Ketone | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Heptachlor | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Heptachlor Epoxide | NA | ND | 0.05 | 0.1 | ng/dry g | |



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Chlorinated Pesticides

ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|-----------------------|----------|------------------|------|---------------------|----------|---------------------|
| Hexachlorobenzene | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Methoxychlor | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Mirex | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Oxychlordane | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Perthane | NA | ND | 0.05 | 0.1 | ng/dry g | |
| trans-Nonachlor | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Method: EPA 8270C-NCI | | Batch ID: O-6001 | | Prepared: 09-Aug-13 | | Analyzed: 24-Aug-13 |
| Toxaphene | NA | ND | 0.1 | 0.2 | ng/dry g | |

Sample ID: 21734-R1

B13-8374

Matrix: Sediment

Sampled: 10-Jul-13 14:28

Received: 13-Jul-13

Method: EPA 8270C

Batch ID: O-6001

Prepared: 09-Aug-13

Analyzed: 30-Aug-13

| | | | | | | |
|-----------------|----|-----|------|-----|------------|--|
| (PCB030) | NA | 93 | | | % Recovery | |
| (PCB112) | NA | 97 | | | % Recovery | |
| (PCB198) | NA | 98 | | | % Recovery | |
| (TCMX) | NA | 85 | | | % Recovery | |
| 2,4'-DDD | NA | ND | 0.05 | 0.1 | ng/dry g | |
| 2,4'-DDE | NA | ND | 0.05 | 0.1 | ng/dry g | |
| 2,4'-DDT | NA | ND | 0.05 | 0.1 | ng/dry g | |
| 4,4'-DDD | NA | ND | 0.05 | 0.1 | ng/dry g | |
| 4,4'-DDE | NA | 0.6 | 0.05 | 0.1 | ng/dry g | |
| 4,4'-DDMU | NA | ND | 0.05 | 0.1 | ng/dry g | |
| 4,4'-DDT | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Aldrin | NA | ND | 0.05 | 0.1 | ng/dry g | |
| BHC-alpha | NA | ND | 0.05 | 0.1 | ng/dry g | |
| BHC-beta | NA | ND | 0.05 | 0.1 | ng/dry g | |
| BHC-delta | NA | ND | 0.05 | 0.1 | ng/dry g | |
| BHC-gamma | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Chlordane-alpha | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Chlordane-gamma | NA | ND | 0.05 | 0.1 | ng/dry g | |
| cis-Nonachlor | NA | ND | 0.05 | 0.1 | ng/dry g | |
| DCPA (Dacthal) | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Dicofol | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Dieldrin | NA | ND | 0.05 | 0.1 | ng/dry g | |



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Chlorinated Pesticides

ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|--------------------|----------|--------|------|-----|----------|---------|
| Endosulfan Sulfate | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endosulfan-I | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endosulfan-II | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endrin | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endrin Aldehyde | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endrin Ketone | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Heptachlor | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Heptachlor Epoxide | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Hexachlorobenzene | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Methoxychlor | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Mirex | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Oxychlorthane | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Perthane | NA | ND | 0.05 | 0.1 | ng/dry g | |
| trans-Nonachlor | NA | ND | 0.05 | 0.1 | ng/dry g | |

Method: EPA 8270C-NCI

Batch ID: O-6001

Prepared: 09-Aug-13

Analyzed: 24-Aug-13

| | | | | | | |
|-----------|----|----|-----|-----|----------|--|
| Toxaphene | NA | ND | 0.1 | 0.2 | ng/dry g | |
|-----------|----|----|-----|-----|----------|--|

Sample ID: 21735-R1

B13-8371

Matrix: Sediment

Sampled: 10-Jul-13

12:03

Received: 13-Jul-13

Method: EPA 8270C

Batch ID: O-6001

Prepared: 09-Aug-13

Analyzed: 30-Aug-13

| | | | | | | |
|-----------|----|-----|------|-----|------------|--|
| (PCB030) | NA | 86 | | | % Recovery | |
| (PCB112) | NA | 98 | | | % Recovery | |
| (PCB198) | NA | 103 | | | % Recovery | |
| (TCMX) | NA | 84 | | | % Recovery | |
| 2,4'-DDD | NA | ND | 0.05 | 0.1 | ng/dry g | |
| 2,4'-DDE | NA | ND | 0.05 | 0.1 | ng/dry g | |
| 2,4'-DDT | NA | ND | 0.05 | 0.1 | ng/dry g | |
| 4,4'-DDD | NA | ND | 0.05 | 0.1 | ng/dry g | |
| 4,4'-DDE | NA | 0.9 | 0.05 | 0.1 | ng/dry g | |
| 4,4'-DDMU | NA | ND | 0.05 | 0.1 | ng/dry g | |
| 4,4'-DDT | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Aldrin | NA | ND | 0.05 | 0.1 | ng/dry g | |
| BHC-alpha | NA | ND | 0.05 | 0.1 | ng/dry g | |
| BHC-beta | NA | ND | 0.05 | 0.1 | ng/dry g | |



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Chlorinated Pesticides

ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|--------------------|----------|--------|------|-----|----------|---------|
| BHC-delta | NA | ND | 0.05 | 0.1 | ng/dry g | |
| BHC-gamma | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Chlordane-alpha | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Chlordane-gamma | NA | ND | 0.05 | 0.1 | ng/dry g | |
| cis-Nonachlor | NA | ND | 0.05 | 0.1 | ng/dry g | |
| DCPA (Dacthal) | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Dicofol | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Dieldrin | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endosulfan Sulfate | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endosulfan-I | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endosulfan-II | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endrin | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endrin Aldehyde | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endrin Ketone | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Heptachlor | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Heptachlor Epoxide | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Hexachlorobenzene | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Methoxychlor | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Mirex | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Oxychlordane | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Perthane | NA | ND | 0.05 | 0.1 | ng/dry g | |
| trans-Nonachlor | NA | ND | 0.05 | 0.1 | ng/dry g | |

Method: EPA 8270C-NCI

Batch ID: O-6001

Prepared: 09-Aug-13

Analyzed: 24-Aug-13

| | | | | | | |
|-----------|----|----|-----|-----|----------|--|
| Toxaphene | NA | ND | 0.1 | 0.2 | ng/dry g | |
|-----------|----|----|-----|-----|----------|--|

Sample ID: 21736-R1

B13-8363

Matrix: Sediment

Sampled: 10-Jul-13 13:38

Received: 13-Jul-13

Method: EPA 8270C

Batch ID: O-6001

Prepared: 09-Aug-13

Analyzed: 30-Aug-13

| | | | | | | |
|----------|----|----|------|-----|------------|--|
| (PCB030) | NA | 93 | | | % Recovery | |
| (PCB112) | NA | 99 | | | % Recovery | |
| (PCB198) | NA | 97 | | | % Recovery | |
| (TCMX) | NA | 85 | | | % Recovery | |
| 2,4'-DDD | NA | ND | 0.05 | 0.1 | ng/dry g | |
| 2,4'-DDE | NA | ND | 0.05 | 0.1 | ng/dry g | |



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CA ELAP #2769

Chlorinated Pesticides

ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|--------------------|----------|--------|------|-----|----------|---------|
| 2,4'-DDT | NA | ND | 0.05 | 0.1 | ng/dry g | |
| 4,4'-DDD | NA | ND | 0.05 | 0.1 | ng/dry g | |
| 4,4'-DDE | NA | 0.5 | 0.05 | 0.1 | ng/dry g | |
| 4,4'-DDMU | NA | ND | 0.05 | 0.1 | ng/dry g | |
| 4,4'-DDT | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Aldrin | NA | ND | 0.05 | 0.1 | ng/dry g | |
| BHC-alpha | NA | ND | 0.05 | 0.1 | ng/dry g | |
| BHC-beta | NA | ND | 0.05 | 0.1 | ng/dry g | |
| BHC-delta | NA | ND | 0.05 | 0.1 | ng/dry g | |
| BHC-gamma | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Chlordane-alpha | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Chlordane-gamma | NA | ND | 0.05 | 0.1 | ng/dry g | |
| cis-Nonachlor | NA | ND | 0.05 | 0.1 | ng/dry g | |
| DCPA (Dacthal) | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Dicofol | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Dieldrin | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endosulfan Sulfate | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endosulfan-I | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endosulfan-II | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endrin | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endrin Aldehyde | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endrin Ketone | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Heptachlor | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Heptachlor Epoxide | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Hexachlorobenzene | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Methoxychlor | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Mirex | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Oxychlordane | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Perthane | NA | ND | 0.05 | 0.1 | ng/dry g | |
| trans-Nonachlor | NA | ND | 0.05 | 0.1 | ng/dry g | |

Method: EPA 8270C-NCI

Batch ID: O-6001

Prepared: 09-Aug-13

Analyzed: 24-Aug-13

| | | | | | | |
|-----------|----|----|-----|-----|----------|--|
| Toxaphene | NA | ND | 0.1 | 0.2 | ng/dry g | |
|-----------|----|----|-----|-----|----------|--|



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CA ELAP #2769

Chlorinated Pesticides

ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|----------------------------|-------------------|-------------------------|------|-----|---------------------------------|----------------------------|
| Sample ID: 21737-R1 | B13-8360 | Matrix: Sediment | | | Sampled: 10-Jul-13 15:30 | Received: 13-Jul-13 |
| | Method: EPA 8270C | Batch ID: O-6001 | | | Prepared: 09-Aug-13 | Analyzed: 30-Aug-13 |
| (PCB030) | NA | 92 | | | % Recovery | |
| (PCB112) | NA | 100 | | | % Recovery | |
| (PCB198) | NA | 98 | | | % Recovery | |
| (TCMX) | NA | 89 | | | % Recovery | |
| 2,4'-DDD | NA | ND | 0.05 | 0.1 | ng/dry g | |
| 2,4'-DDE | NA | ND | 0.05 | 0.1 | ng/dry g | |
| 2,4'-DDT | NA | ND | 0.05 | 0.1 | ng/dry g | |
| 4,4'-DDD | NA | ND | 0.05 | 0.1 | ng/dry g | |
| 4,4'-DDE | NA | 0.8 | 0.05 | 0.1 | ng/dry g | |
| 4,4'-DDMU | NA | ND | 0.05 | 0.1 | ng/dry g | |
| 4,4'-DDT | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Aldrin | NA | ND | 0.05 | 0.1 | ng/dry g | |
| BHC-alpha | NA | ND | 0.05 | 0.1 | ng/dry g | |
| BHC-beta | NA | ND | 0.05 | 0.1 | ng/dry g | |
| BHC-delta | NA | ND | 0.05 | 0.1 | ng/dry g | |
| BHC-gamma | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Chlordane-alpha | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Chlordane-gamma | NA | ND | 0.05 | 0.1 | ng/dry g | |
| cis-Nonachlor | NA | ND | 0.05 | 0.1 | ng/dry g | |
| DCPA (Dacthal) | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Dicofol | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Dieldrin | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endosulfan Sulfate | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endosulfan-I | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endosulfan-II | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endrin | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endrin Aldehyde | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endrin Ketone | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Heptachlor | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Heptachlor Epoxide | NA | ND | 0.05 | 0.1 | ng/dry g | |



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CA ELAP #2769

Chlorinated Pesticides

ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|-----------------------|----------|------------------|------|---------------------|----------|---------------------|
| Hexachlorobenzene | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Methoxychlor | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Mirex | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Oxychlorane | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Perthane | NA | ND | 0.05 | 0.1 | ng/dry g | |
| trans-Nonachlor | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Method: EPA 8270C-NCI | | Batch ID: O-6001 | | Prepared: 09-Aug-13 | | Analyzed: 24-Aug-13 |
| Toxaphene | NA | ND | 0.1 | 0.2 | ng/dry g | |

Sample ID: 21738-R1

B13-8349

Matrix: Sediment

Sampled: 10-Jul-13

9:51

Received: 13-Jul-13

Method: EPA 8270C

Batch ID: O-6001

Prepared: 09-Aug-13

Analyzed: 30-Aug-13

| | | | | | | |
|-----------------|----|-----|------|-----|------------|--|
| (PCB030) | NA | 92 | | | % Recovery | |
| (PCB112) | NA | 100 | | | % Recovery | |
| (PCB198) | NA | 102 | | | % Recovery | |
| (TCMX) | NA | 86 | | | % Recovery | |
| 2,4'-DDD | NA | ND | 0.05 | 0.1 | ng/dry g | |
| 2,4'-DDE | NA | 0.4 | 0.05 | 0.1 | ng/dry g | |
| 2,4'-DDT | NA | ND | 0.05 | 0.1 | ng/dry g | |
| 4,4'-DDD | NA | ND | 0.05 | 0.1 | ng/dry g | |
| 4,4'-DDE | NA | 1.1 | 0.05 | 0.1 | ng/dry g | |
| 4,4'-DDMU | NA | ND | 0.05 | 0.1 | ng/dry g | |
| 4,4'-DDT | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Aldrin | NA | ND | 0.05 | 0.1 | ng/dry g | |
| BHC-alpha | NA | ND | 0.05 | 0.1 | ng/dry g | |
| BHC-beta | NA | ND | 0.05 | 0.1 | ng/dry g | |
| BHC-delta | NA | ND | 0.05 | 0.1 | ng/dry g | |
| BHC-gamma | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Chlordane-alpha | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Chlordane-gamma | NA | ND | 0.05 | 0.1 | ng/dry g | |
| cis-Nonachlor | NA | ND | 0.05 | 0.1 | ng/dry g | |
| DCPA (Dacthal) | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Dicofol | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Dieldrin | NA | ND | 0.05 | 0.1 | ng/dry g | |



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Chlorinated Pesticides

ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|--------------------|----------|--------|------|-----|----------|---------|
| Endosulfan Sulfate | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endosulfan-I | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endosulfan-II | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endrin | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endrin Aldehyde | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endrin Ketone | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Heptachlor | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Heptachlor Epoxide | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Hexachlorobenzene | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Methoxychlor | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Mirex | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Oxychlorthane | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Perthane | NA | ND | 0.05 | 0.1 | ng/dry g | |
| trans-Nonachlor | NA | ND | 0.05 | 0.1 | ng/dry g | |

Method: EPA 8270C-NCI

Batch ID: O-6001

Prepared: 09-Aug-13

Analyzed: 24-Aug-13

| | | | | | | |
|-----------|----|----|-----|-----|----------|--|
| Toxaphene | NA | ND | 0.1 | 0.2 | ng/dry g | |
|-----------|----|----|-----|-----|----------|--|

Sample ID: 21739-R1

B13-8326

Matrix: Sediment

Sampled: 10-Jul-13

8:28

Received: 13-Jul-13

Method: EPA 8270C

Batch ID: O-6001

Prepared: 09-Aug-13

Analyzed: 30-Aug-13

| | | | | | | |
|-----------|----|-----|------|-----|------------|--|
| (PCB030) | NA | 99 | | | % Recovery | |
| (PCB112) | NA | 101 | | | % Recovery | |
| (PCB198) | NA | 99 | | | % Recovery | |
| (TCMX) | NA | 95 | | | % Recovery | |
| 2,4'-DDD | NA | ND | 0.05 | 0.1 | ng/dry g | |
| 2,4'-DDE | NA | 0.2 | 0.05 | 0.1 | ng/dry g | |
| 2,4'-DDT | NA | ND | 0.05 | 0.1 | ng/dry g | |
| 4,4'-DDD | NA | ND | 0.05 | 0.1 | ng/dry g | |
| 4,4'-DDE | NA | 0.9 | 0.05 | 0.1 | ng/dry g | |
| 4,4'-DDMU | NA | ND | 0.05 | 0.1 | ng/dry g | |
| 4,4'-DDT | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Aldrin | NA | ND | 0.05 | 0.1 | ng/dry g | |
| BHC-alpha | NA | ND | 0.05 | 0.1 | ng/dry g | |
| BHC-beta | NA | ND | 0.05 | 0.1 | ng/dry g | |



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ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|--------------------|----------|--------|------|-----|----------|---------|
| BHC-delta | NA | ND | 0.05 | 0.1 | ng/dry g | |
| BHC-gamma | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Chlordane-alpha | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Chlordane-gamma | NA | ND | 0.05 | 0.1 | ng/dry g | |
| cis-Nonachlor | NA | ND | 0.05 | 0.1 | ng/dry g | |
| DCPA (Dacthal) | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Dicofol | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Dieldrin | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endosulfan Sulfate | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endosulfan-I | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endosulfan-II | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endrin | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endrin Aldehyde | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endrin Ketone | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Heptachlor | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Heptachlor Epoxide | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Hexachlorobenzene | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Methoxychlor | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Mirex | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Oxychlordane | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Perthane | NA | ND | 0.05 | 0.1 | ng/dry g | |
| trans-Nonachlor | NA | ND | 0.05 | 0.1 | ng/dry g | |

Method: EPA 8270C-NCI

Batch ID: O-6001

Prepared: 09-Aug-13

Analyzed: 24-Aug-13

| | | | | | | |
|-----------|----|----|-----|-----|----------|--|
| Toxaphene | NA | ND | 0.1 | 0.2 | ng/dry g | |
|-----------|----|----|-----|-----|----------|--|

Sample ID: 21740-R1

B13-8367

Matrix: Sediment

Sampled: 11-Jul-13

14:10

Received: 13-Jul-13

Method: EPA 8270C

Batch ID: O-6001

Prepared: 09-Aug-13

Analyzed: 30-Aug-13

| | | | | | | |
|----------|----|-----|------|-----|------------|--|
| (PCB030) | NA | 79 | | | % Recovery | |
| (PCB112) | NA | 89 | | | % Recovery | |
| (PCB198) | NA | 101 | | | % Recovery | |
| (TCMX) | NA | 85 | | | % Recovery | |
| 2,4'-DDD | NA | ND | 0.05 | 0.1 | ng/dry g | |
| 2,4'-DDE | NA | ND | 0.05 | 0.1 | ng/dry g | |



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ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|--------------------|----------|--------|------|-----|----------|---------|
| 2,4'-DDT | NA | ND | 0.05 | 0.1 | ng/dry g | |
| 4,4'-DDD | NA | ND | 0.05 | 0.1 | ng/dry g | |
| 4,4'-DDE | NA | 0.9 | 0.05 | 0.1 | ng/dry g | |
| 4,4'-DDMU | NA | ND | 0.05 | 0.1 | ng/dry g | |
| 4,4'-DDT | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Aldrin | NA | ND | 0.05 | 0.1 | ng/dry g | |
| BHC-alpha | NA | ND | 0.05 | 0.1 | ng/dry g | |
| BHC-beta | NA | ND | 0.05 | 0.1 | ng/dry g | |
| BHC-delta | NA | ND | 0.05 | 0.1 | ng/dry g | |
| BHC-gamma | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Chlordane-alpha | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Chlordane-gamma | NA | ND | 0.05 | 0.1 | ng/dry g | |
| cis-Nonachlor | NA | ND | 0.05 | 0.1 | ng/dry g | |
| DCPA (Dacthal) | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Dicofol | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Dieldrin | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endosulfan Sulfate | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endosulfan-I | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endosulfan-II | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endrin | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endrin Aldehyde | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endrin Ketone | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Heptachlor | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Heptachlor Epoxide | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Hexachlorobenzene | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Methoxychlor | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Mirex | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Oxychlordane | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Perthane | NA | ND | 0.05 | 0.1 | ng/dry g | |
| trans-Nonachlor | NA | ND | 0.05 | 0.1 | ng/dry g | |

Method: EPA 8270C-NCI

Batch ID: O-6001

Prepared: 09-Aug-13

Analyzed: 24-Aug-13

| | | | | | | |
|-----------|----|----|-----|-----|----------|--|
| Toxaphene | NA | ND | 0.1 | 0.2 | ng/dry g | |
|-----------|----|----|-----|-----|----------|--|



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Chlorinated Pesticides

ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|----------------------------|-------------------|-------------------------|------|-----|------------|--------------------------------|
| Sample ID: 21741-R1 | B13-8302 | Matrix: Sediment | | | | |
| | Method: EPA 8270C | Batch ID: O-6001 | | | | |
| | | | | | | Sampled: 11-Jul-13 9:29 |
| | | | | | | Received: 13-Jul-13 |
| | | | | | | Analyzed: 30-Aug-13 |
| (PCB030) | NA | 94 | | | % Recovery | |
| (PCB112) | NA | 97 | | | % Recovery | |
| (PCB198) | NA | 100 | | | % Recovery | |
| (TCMX) | NA | 93 | | | % Recovery | |
| 2,4'-DDD | NA | ND | 0.05 | 0.1 | ng/dry g | |
| 2,4'-DDE | NA | 0.9 | 0.05 | 0.1 | ng/dry g | |
| 2,4'-DDT | NA | ND | 0.05 | 0.1 | ng/dry g | |
| 4,4'-DDD | NA | ND | 0.05 | 0.1 | ng/dry g | |
| 4,4'-DDE | NA | 4 | 0.05 | 0.1 | ng/dry g | |
| 4,4'-DDMU | NA | ND | 0.05 | 0.1 | ng/dry g | |
| 4,4'-DDT | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Aldrin | NA | ND | 0.05 | 0.1 | ng/dry g | |
| BHC-alpha | NA | ND | 0.05 | 0.1 | ng/dry g | |
| BHC-beta | NA | ND | 0.05 | 0.1 | ng/dry g | |
| BHC-delta | NA | ND | 0.05 | 0.1 | ng/dry g | |
| BHC-gamma | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Chlordane-alpha | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Chlordane-gamma | NA | ND | 0.05 | 0.1 | ng/dry g | |
| cis-Nonachlor | NA | ND | 0.05 | 0.1 | ng/dry g | |
| DCPA (Dacthal) | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Dicofol | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Dieldrin | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endosulfan Sulfate | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endosulfan-I | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endosulfan-II | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endrin | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endrin Aldehyde | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endrin Ketone | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Heptachlor | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Heptachlor Epoxide | NA | ND | 0.05 | 0.1 | ng/dry g | |



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Chlorinated Pesticides

ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|-----------------------|----------|------------------|------|---------------------|----------|---------------------|
| Hexachlorobenzene | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Methoxychlor | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Mirex | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Oxychlordane | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Perthane | NA | ND | 0.05 | 0.1 | ng/dry g | |
| trans-Nonachlor | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Method: EPA 8270C-NCI | | Batch ID: O-6001 | | Prepared: 09-Aug-13 | | Analyzed: 24-Aug-13 |
| Toxaphene | NA | ND | 0.1 | 0.2 | ng/dry g | |

Sample ID: 21742-R1

B13-8304

Matrix: Sediment

Sampled: 11-Jul-13

16:24

Received: 13-Jul-13

Method: EPA 8270C

Batch ID: O-6001

Prepared: 09-Aug-13

Analyzed: 30-Aug-13

| | | | | | | |
|-----------------|----|-----|------|-----|------------|--|
| (PCB030) | NA | 94 | | | % Recovery | |
| (PCB112) | NA | 101 | | | % Recovery | |
| (PCB198) | NA | 98 | | | % Recovery | |
| (TCMX) | NA | 92 | | | % Recovery | |
| 2,4'-DDD | NA | ND | 0.05 | 0.1 | ng/dry g | |
| 2,4'-DDE | NA | 0.6 | 0.05 | 0.1 | ng/dry g | |
| 2,4'-DDT | NA | ND | 0.05 | 0.1 | ng/dry g | |
| 4,4'-DDD | NA | ND | 0.05 | 0.1 | ng/dry g | |
| 4,4'-DDE | NA | 2.8 | 0.05 | 0.1 | ng/dry g | |
| 4,4'-DDMU | NA | ND | 0.05 | 0.1 | ng/dry g | |
| 4,4'-DDT | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Aldrin | NA | ND | 0.05 | 0.1 | ng/dry g | |
| BHC-alpha | NA | ND | 0.05 | 0.1 | ng/dry g | |
| BHC-beta | NA | ND | 0.05 | 0.1 | ng/dry g | |
| BHC-delta | NA | ND | 0.05 | 0.1 | ng/dry g | |
| BHC-gamma | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Chlordane-alpha | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Chlordane-gamma | NA | ND | 0.05 | 0.1 | ng/dry g | |
| cis-Nonachlor | NA | ND | 0.05 | 0.1 | ng/dry g | |
| DCPA (Dacthal) | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Dicofol | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Dieldrin | NA | ND | 0.05 | 0.1 | ng/dry g | |



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Chlorinated Pesticides

ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|--------------------|----------|--------|------|-----|----------|---------|
| Endosulfan Sulfate | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endosulfan-I | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endosulfan-II | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endrin | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endrin Aldehyde | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endrin Ketone | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Heptachlor | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Heptachlor Epoxide | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Hexachlorobenzene | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Methoxychlor | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Mirex | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Oxychlorthane | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Perthane | NA | ND | 0.05 | 0.1 | ng/dry g | |
| trans-Nonachlor | NA | ND | 0.05 | 0.1 | ng/dry g | |

Method: EPA 8270C-NCI

Batch ID: O-6001

Prepared: 09-Aug-13

Analyzed: 24-Aug-13

| | | | | | | |
|-----------|----|----|-----|-----|----------|--|
| Toxaphene | NA | ND | 0.1 | 0.2 | ng/dry g | |
|-----------|----|----|-----|-----|----------|--|

Sample ID: 21743-R1

B13-8306

Matrix: Sediment

Sampled: 11-Jul-13

13:00

Received: 13-Jul-13

Method: EPA 8270C

Batch ID: O-6003

Prepared: 15-Aug-13

Analyzed: 30-Aug-13

| | | | | | | |
|-----------|----|-----|------|-----|------------|--|
| (PCB030) | NA | 98 | | | % Recovery | |
| (PCB112) | NA | 104 | | | % Recovery | |
| (PCB198) | NA | 94 | | | % Recovery | |
| (TCMX) | NA | 100 | | | % Recovery | |
| 2,4'-DDD | NA | ND | 0.05 | 0.1 | ng/dry g | |
| 2,4'-DDE | NA | 0.5 | 0.05 | 0.1 | ng/dry g | |
| 2,4'-DDT | NA | ND | 0.05 | 0.1 | ng/dry g | |
| 4,4'-DDD | NA | ND | 0.05 | 0.1 | ng/dry g | |
| 4,4'-DDE | NA | 1.7 | 0.05 | 0.1 | ng/dry g | |
| 4,4'-DDMU | NA | ND | 0.05 | 0.1 | ng/dry g | |
| 4,4'-DDT | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Aldrin | NA | ND | 0.05 | 0.1 | ng/dry g | |
| BHC-alpha | NA | ND | 0.05 | 0.1 | ng/dry g | |
| BHC-beta | NA | ND | 0.05 | 0.1 | ng/dry g | |



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ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|--------------------|----------|--------|------|-----|----------|---------|
| BHC-delta | NA | ND | 0.05 | 0.1 | ng/dry g | |
| BHC-gamma | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Chlordane-alpha | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Chlordane-gamma | NA | ND | 0.05 | 0.1 | ng/dry g | |
| cis-Nonachlor | NA | ND | 0.05 | 0.1 | ng/dry g | |
| DCPA (Dacthal) | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Dicofol | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Dieldrin | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endosulfan Sulfate | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endosulfan-I | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endosulfan-II | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endrin | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endrin Aldehyde | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endrin Ketone | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Heptachlor | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Heptachlor Epoxide | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Hexachlorobenzene | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Methoxychlor | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Mirex | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Oxychlordane | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Perthane | NA | ND | 0.05 | 0.1 | ng/dry g | |
| trans-Nonachlor | NA | ND | 0.05 | 0.1 | ng/dry g | |

Method: EPA 8270C-NCI

Batch ID: O-6003

Prepared: 15-Aug-13

Analyzed: 26-Aug-13

| | | | | | | |
|-----------|----|----|-----|-----|----------|--|
| Toxaphene | NA | ND | 0.1 | 0.2 | ng/dry g | |
|-----------|----|----|-----|-----|----------|--|

Sample ID: 21744-R1

B13-8308

Matrix: Sediment

Sampled: 11-Jul-13

17:06

Received: 13-Jul-13

Method: EPA 8270C

Batch ID: O-6003

Prepared: 15-Aug-13

Analyzed: 30-Aug-13

| | | | | | | |
|----------|----|-----|------|-----|------------|--|
| (PCB030) | NA | 103 | | | % Recovery | |
| (PCB112) | NA | 108 | | | % Recovery | |
| (PCB198) | NA | 97 | | | % Recovery | |
| (TCMX) | NA | 101 | | | % Recovery | |
| 2,4'-DDD | NA | ND | 0.05 | 0.1 | ng/dry g | |
| 2,4'-DDE | NA | 0.5 | 0.05 | 0.1 | ng/dry g | |



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CA ELAP #2769

Chlorinated Pesticides

ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|--------------------|----------|--------|------|-----|----------|---------|
| 2,4'-DDT | NA | ND | 0.05 | 0.1 | ng/dry g | |
| 4,4'-DDD | NA | ND | 0.05 | 0.1 | ng/dry g | |
| 4,4'-DDE | NA | 2.5 | 0.05 | 0.1 | ng/dry g | |
| 4,4'-DDMU | NA | ND | 0.05 | 0.1 | ng/dry g | |
| 4,4'-DDT | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Aldrin | NA | ND | 0.05 | 0.1 | ng/dry g | |
| BHC-alpha | NA | ND | 0.05 | 0.1 | ng/dry g | |
| BHC-beta | NA | ND | 0.05 | 0.1 | ng/dry g | |
| BHC-delta | NA | ND | 0.05 | 0.1 | ng/dry g | |
| BHC-gamma | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Chlordane-alpha | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Chlordane-gamma | NA | ND | 0.05 | 0.1 | ng/dry g | |
| cis-Nonachlor | NA | ND | 0.05 | 0.1 | ng/dry g | |
| DCPA (Dacthal) | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Dicofol | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Dieldrin | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endosulfan Sulfate | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endosulfan-I | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endosulfan-II | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endrin | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endrin Aldehyde | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endrin Ketone | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Heptachlor | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Heptachlor Epoxide | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Hexachlorobenzene | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Methoxychlor | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Mirex | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Oxychlordane | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Perthane | NA | ND | 0.05 | 0.1 | ng/dry g | |
| trans-Nonachlor | NA | ND | 0.05 | 0.1 | ng/dry g | |

Method: EPA 8270C-NCI

Batch ID: O-6003

Prepared: 15-Aug-13

Analyzed: 26-Aug-13

| | | | | | | |
|-----------|----|----|-----|-----|----------|--|
| Toxaphene | NA | ND | 0.1 | 0.2 | ng/dry g | |
|-----------|----|----|-----|-----|----------|--|



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Chlorinated Pesticides

ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|----------------------------|-------------------|-------------------------|------|---------------------|------------|---------------------|
| Sample ID: 21745-R1 | B13-8310 | Matrix: Sediment | | | | |
| | Method: EPA 8270C | Batch ID: O-6005 | | | | |
| | | | | Sampled: 11-Jul-13 | 17:51 | Received: 13-Jul-13 |
| | | | | Prepared: 24-Aug-13 | | Analyzed: 06-Sep-13 |
| (PCB030) | NA | 86 | | | % Recovery | |
| (PCB112) | NA | 96 | | | % Recovery | |
| (PCB198) | NA | 107 | | | % Recovery | |
| (TCMX) | NA | 80 | | | % Recovery | |
| 2,4'-DDD | NA | ND | 0.05 | 0.1 | ng/dry g | |
| 2,4'-DDE | NA | 0.3 | 0.05 | 0.1 | ng/dry g | |
| 2,4'-DDT | NA | ND | 0.05 | 0.1 | ng/dry g | |
| 4,4'-DDD | NA | 0.2 | 0.05 | 0.1 | ng/dry g | |
| 4,4'-DDE | NA | 2 | 0.05 | 0.1 | ng/dry g | |
| 4,4'-DDMU | NA | 0.5 | 0.05 | 0.1 | ng/dry g | |
| 4,4'-DDT | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Aldrin | NA | ND | 0.05 | 0.1 | ng/dry g | |
| BHC-alpha | NA | ND | 0.05 | 0.1 | ng/dry g | |
| BHC-beta | NA | ND | 0.05 | 0.1 | ng/dry g | |
| BHC-delta | NA | ND | 0.05 | 0.1 | ng/dry g | |
| BHC-gamma | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Chlordane-alpha | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Chlordane-gamma | NA | ND | 0.05 | 0.1 | ng/dry g | |
| cis-Nonachlor | NA | ND | 0.05 | 0.1 | ng/dry g | |
| DCPA (Dacthal) | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Dicofol | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Dieldrin | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endosulfan Sulfate | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endosulfan-I | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endosulfan-II | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endrin | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endrin Aldehyde | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endrin Ketone | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Heptachlor | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Heptachlor Epoxide | NA | ND | 0.05 | 0.1 | ng/dry g | |



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ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|-----------------------|----------|------------------|------|---------------------|----------|---------------------|
| Hexachlorobenzene | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Methoxychlor | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Mirex | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Oxychlordane | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Perthane | NA | ND | 0.05 | 0.1 | ng/dry g | |
| trans-Nonachlor | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Method: EPA 8270C-NCI | | Batch ID: O-6005 | | Prepared: 24-Aug-13 | | Analyzed: 06-Sep-13 |
| Toxaphene | NA | ND | 0.1 | 0.2 | ng/dry g | |

Sample ID: 21746-R1

B13-8316

Matrix: Sediment

Sampled: 11-Jul-13

10:23

Received: 13-Jul-13

Method: EPA 8270C

Batch ID: O-6005

Prepared: 24-Aug-13

Analyzed: 06-Sep-13

| | | | | | | |
|-----------------|----|-----|------|-----|------------|--|
| (PCB030) | NA | 84 | | | % Recovery | |
| (PCB112) | NA | 100 | | | % Recovery | |
| (PCB198) | NA | 99 | | | % Recovery | |
| (TCMX) | NA | 78 | | | % Recovery | |
| 2,4'-DDD | NA | ND | 0.05 | 0.1 | ng/dry g | |
| 2,4'-DDE | NA | 0.4 | 0.05 | 0.1 | ng/dry g | |
| 2,4'-DDT | NA | ND | 0.05 | 0.1 | ng/dry g | |
| 4,4'-DDD | NA | 0.2 | 0.05 | 0.1 | ng/dry g | |
| 4,4'-DDE | NA | 2.4 | 0.05 | 0.1 | ng/dry g | |
| 4,4'-DDMU | NA | 0.7 | 0.05 | 0.1 | ng/dry g | |
| 4,4'-DDT | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Aldrin | NA | ND | 0.05 | 0.1 | ng/dry g | |
| BHC-alpha | NA | ND | 0.05 | 0.1 | ng/dry g | |
| BHC-beta | NA | ND | 0.05 | 0.1 | ng/dry g | |
| BHC-delta | NA | ND | 0.05 | 0.1 | ng/dry g | |
| BHC-gamma | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Chlordane-alpha | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Chlordane-gamma | NA | ND | 0.05 | 0.1 | ng/dry g | |
| cis-Nonachlor | NA | ND | 0.05 | 0.1 | ng/dry g | |
| DCPA (Dacthal) | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Dicofol | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Dieldrin | NA | ND | 0.05 | 0.1 | ng/dry g | |



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Chlorinated Pesticides

ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|--------------------|----------|--------|------|-----|----------|---------|
| Endosulfan Sulfate | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endosulfan-I | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endosulfan-II | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endrin | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endrin Aldehyde | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endrin Ketone | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Heptachlor | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Heptachlor Epoxide | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Hexachlorobenzene | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Methoxychlor | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Mirex | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Oxychlorthane | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Perthane | NA | ND | 0.05 | 0.1 | ng/dry g | |
| trans-Nonachlor | NA | ND | 0.05 | 0.1 | ng/dry g | |

Method: EPA 8270C-NCI

Batch ID: O-6005

Prepared: 24-Aug-13

Analyzed: 06-Sep-13

| | | | | | | |
|-----------|----|----|-----|-----|----------|--|
| Toxaphene | NA | ND | 0.1 | 0.2 | ng/dry g | |
|-----------|----|----|-----|-----|----------|--|

Sample ID: 21747-R1

TMDL2-FH

Matrix: Sediment

Sampled: 11-Jul-13

15:25

Received: 13-Jul-13

Method: EPA 8270C

Batch ID: O-6005

Prepared: 24-Aug-13

Analyzed: 06-Sep-13

| | | | | | | |
|-----------|----|-----|------|-----|------------|--|
| (PCB030) | NA | 88 | | | % Recovery | |
| (PCB112) | NA | 103 | | | % Recovery | |
| (PCB198) | NA | 108 | | | % Recovery | |
| (TCMX) | NA | 81 | | | % Recovery | |
| 2,4'-DDD | NA | ND | 0.05 | 0.1 | ng/dry g | |
| 2,4'-DDE | NA | ND | 0.05 | 0.1 | ng/dry g | |
| 2,4'-DDT | NA | ND | 0.05 | 0.1 | ng/dry g | |
| 4,4'-DDD | NA | ND | 0.05 | 0.1 | ng/dry g | |
| 4,4'-DDE | NA | 4.9 | 0.05 | 0.1 | ng/dry g | |
| 4,4'-DDMU | NA | ND | 0.05 | 0.1 | ng/dry g | |
| 4,4'-DDT | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Aldrin | NA | ND | 0.05 | 0.1 | ng/dry g | |
| BHC-alpha | NA | ND | 0.05 | 0.1 | ng/dry g | |
| BHC-beta | NA | ND | 0.05 | 0.1 | ng/dry g | |



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Chlorinated Pesticides

ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|--------------------|----------|--------|------|-----|----------|---------|
| BHC-delta | NA | ND | 0.05 | 0.1 | ng/dry g | |
| BHC-gamma | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Chlordane-alpha | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Chlordane-gamma | NA | ND | 0.05 | 0.1 | ng/dry g | |
| cis-Nonachlor | NA | ND | 0.05 | 0.1 | ng/dry g | |
| DCPA (Dacthal) | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Dicofol | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Dieldrin | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endosulfan Sulfate | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endosulfan-I | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endosulfan-II | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endrin | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endrin Aldehyde | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endrin Ketone | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Heptachlor | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Heptachlor Epoxide | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Hexachlorobenzene | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Methoxychlor | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Mirex | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Oxychlordane | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Perthane | NA | ND | 0.05 | 0.1 | ng/dry g | |
| trans-Nonachlor | NA | ND | 0.05 | 0.1 | ng/dry g | |

Method: EPA 8270C-NCI

Batch ID: O-6005

Prepared: 24-Aug-13

Analyzed: 06-Sep-13

| | | | | | | |
|-----------|----|----|-----|-----|----------|--|
| Toxaphene | NA | ND | 0.1 | 0.2 | ng/dry g | |
|-----------|----|----|-----|-----|----------|--|

Sample ID: 21748-R1

TMDL1-CH

Matrix: Sediment

Sampled: 11-Jul-13

12:07

Received: 13-Jul-13

Method: EPA 8270C

Batch ID: O-6005

Prepared: 24-Aug-13

Analyzed: 06-Sep-13

| | | | | | | |
|----------|----|-----|------|-----|------------|--|
| (PCB030) | NA | 96 | | | % Recovery | |
| (PCB112) | NA | 107 | | | % Recovery | |
| (PCB198) | NA | 98 | | | % Recovery | |
| (TCMX) | NA | 91 | | | % Recovery | |
| 2,4'-DDD | NA | ND | 0.05 | 0.1 | ng/dry g | |
| 2,4'-DDE | NA | 0.4 | 0.05 | 0.1 | ng/dry g | |



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Chlorinated Pesticides

ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|--------------------|----------|--------|------|-----|----------|---------|
| 2,4'-DDT | NA | ND | 0.05 | 0.1 | ng/dry g | |
| 4,4'-DDD | NA | ND | 0.05 | 0.1 | ng/dry g | |
| 4,4'-DDE | NA | 2.7 | 0.05 | 0.1 | ng/dry g | |
| 4,4'-DDMU | NA | ND | 0.05 | 0.1 | ng/dry g | |
| 4,4'-DDT | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Aldrin | NA | ND | 0.05 | 0.1 | ng/dry g | |
| BHC-alpha | NA | 1.1 | 0.05 | 0.1 | ng/dry g | |
| BHC-beta | NA | ND | 0.05 | 0.1 | ng/dry g | |
| BHC-delta | NA | ND | 0.05 | 0.1 | ng/dry g | |
| BHC-gamma | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Chlordane-alpha | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Chlordane-gamma | NA | ND | 0.05 | 0.1 | ng/dry g | |
| cis-Nonachlor | NA | ND | 0.05 | 0.1 | ng/dry g | |
| DCPA (Dacthal) | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Dicofol | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Dieldrin | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endosulfan Sulfate | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endosulfan-I | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endosulfan-II | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endrin | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endrin Aldehyde | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endrin Ketone | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Heptachlor | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Heptachlor Epoxide | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Hexachlorobenzene | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Methoxychlor | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Mirex | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Oxychlordane | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Perthane | NA | ND | 0.05 | 0.1 | ng/dry g | |
| trans-Nonachlor | NA | ND | 0.05 | 0.1 | ng/dry g | |

Method: EPA 8270C-NCI

Batch ID: O-6005

Prepared: 24-Aug-13

Analyzed: 06-Sep-13

| | | | | | | |
|-----------|----|----|-----|-----|----------|--|
| Toxaphene | NA | ND | 0.1 | 0.2 | ng/dry g | |
|-----------|----|----|-----|-----|----------|--|



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Chlorinated Pesticides

ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|----------------------------|-------------------|-------------------------|------|-----|------------|---------------------|
| Sample ID: 21749-R1 | TMDL5-DT | Matrix: Sediment | | | | |
| | Method: EPA 8270C | Batch ID: O-6005 | | | | |
| | | | | | 15:25 | Received: 13-Jul-13 |
| | | | | | | Analyzed: 06-Sep-13 |
| (PCB030) | NA | 89 | | | % Recovery | |
| (PCB112) | NA | 103 | | | % Recovery | |
| (PCB198) | NA | 98 | | | % Recovery | |
| (TCMX) | NA | 83 | | | % Recovery | |
| 2,4'-DDD | NA | ND | 0.05 | 0.1 | ng/dry g | |
| 2,4'-DDE | NA | ND | 0.05 | 0.1 | ng/dry g | |
| 2,4'-DDT | NA | ND | 0.05 | 0.1 | ng/dry g | |
| 4,4'-DDD | NA | ND | 0.05 | 0.1 | ng/dry g | |
| 4,4'-DDE | NA | 5.9 | 0.05 | 0.1 | ng/dry g | |
| 4,4'-DDMU | NA | ND | 0.05 | 0.1 | ng/dry g | |
| 4,4'-DDT | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Aldrin | NA | ND | 0.05 | 0.1 | ng/dry g | |
| BHC-alpha | NA | ND | 0.05 | 0.1 | ng/dry g | |
| BHC-beta | NA | ND | 0.05 | 0.1 | ng/dry g | |
| BHC-delta | NA | ND | 0.05 | 0.1 | ng/dry g | |
| BHC-gamma | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Chlordane-alpha | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Chlordane-gamma | NA | ND | 0.05 | 0.1 | ng/dry g | |
| cis-Nonachlor | NA | ND | 0.05 | 0.1 | ng/dry g | |
| DCPA (Dacthal) | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Dicofol | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Dieldrin | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endosulfan Sulfate | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endosulfan-I | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endosulfan-II | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endrin | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endrin Aldehyde | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endrin Ketone | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Heptachlor | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Heptachlor Epoxide | NA | ND | 0.05 | 0.1 | ng/dry g | |



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CA ELAP #2769

Chlorinated Pesticides

ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|-----------------------|----------|------------------|------|---------------------|----------|---------------------|
| Hexachlorobenzene | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Methoxychlor | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Mirex | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Oxychlorane | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Perthane | NA | ND | 0.05 | 0.1 | ng/dry g | |
| trans-Nonachlor | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Method: EPA 8270C-NCI | | Batch ID: O-6005 | | Prepared: 24-Aug-13 | | Analyzed: 06-Sep-13 |
| Toxaphene | NA | ND | 0.1 | 0.2 | ng/dry g | |

Sample ID: 21750-R1

B13-8401

Matrix: Sediment

Sampled: 12-Jul-13

14:42

Received: 13-Jul-13

Method: EPA 8270C

Batch ID: O-6005

Prepared: 24-Aug-13

Analyzed: 06-Sep-13

| | | | | | | |
|-----------------|----|-----|------|-----|------------|--|
| (PCB030) | NA | 88 | | | % Recovery | |
| (PCB112) | NA | 99 | | | % Recovery | |
| (PCB198) | NA | 100 | | | % Recovery | |
| (TCMX) | NA | 81 | | | % Recovery | |
| 2,4'-DDD | NA | 0.2 | 0.05 | 0.1 | ng/dry g | |
| 2,4'-DDE | NA | ND | 0.05 | 0.1 | ng/dry g | |
| 2,4'-DDT | NA | ND | 0.05 | 0.1 | ng/dry g | |
| 4,4'-DDD | NA | 0.8 | 0.05 | 0.1 | ng/dry g | |
| 4,4'-DDE | NA | 1.6 | 0.05 | 0.1 | ng/dry g | |
| 4,4'-DDMU | NA | ND | 0.05 | 0.1 | ng/dry g | |
| 4,4'-DDT | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Aldrin | NA | ND | 0.05 | 0.1 | ng/dry g | |
| BHC-alpha | NA | ND | 0.05 | 0.1 | ng/dry g | |
| BHC-beta | NA | ND | 0.05 | 0.1 | ng/dry g | |
| BHC-delta | NA | ND | 0.05 | 0.1 | ng/dry g | |
| BHC-gamma | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Chlordane-alpha | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Chlordane-gamma | NA | ND | 0.05 | 0.1 | ng/dry g | |
| cis-Nonachlor | NA | ND | 0.05 | 0.1 | ng/dry g | |
| DCPA (Dacthal) | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Dicofol | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Dieldrin | NA | ND | 0.05 | 0.1 | ng/dry g | |



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CA ELAP #2769

Chlorinated Pesticides

ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|--------------------|----------|--------|------|-----|----------|---------|
| Endosulfan Sulfate | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endosulfan-I | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endosulfan-II | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endrin | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endrin Aldehyde | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endrin Ketone | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Heptachlor | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Heptachlor Epoxide | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Hexachlorobenzene | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Methoxychlor | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Mirex | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Oxychlorthane | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Perthane | NA | ND | 0.05 | 0.1 | ng/dry g | |
| trans-Nonachlor | NA | ND | 0.05 | 0.1 | ng/dry g | |

Method: EPA 8270C-NCI

Batch ID: O-6005

Prepared: 24-Aug-13

Analyzed: 06-Sep-13

| | | | | | | |
|-----------|----|----|-----|-----|----------|--|
| Toxaphene | NA | ND | 0.1 | 0.2 | ng/dry g | |
|-----------|----|----|-----|-----|----------|--|

Sample ID: 21751-R1

B13-8399

Matrix: Sediment

Sampled: 12-Jul-13

13:55

Received: 13-Jul-13

Method: EPA 8270C

Batch ID: O-6005

Prepared: 24-Aug-13

Analyzed: 06-Sep-13

| | | | | | | |
|-----------|----|-----|------|-----|------------|--|
| (PCB030) | NA | 96 | | | % Recovery | |
| (PCB112) | NA | 104 | | | % Recovery | |
| (PCB198) | NA | 84 | | | % Recovery | |
| (TCMX) | NA | 89 | | | % Recovery | |
| 2,4'-DDD | NA | ND | 0.05 | 0.1 | ng/dry g | |
| 2,4'-DDE | NA | ND | 0.05 | 0.1 | ng/dry g | |
| 2,4'-DDT | NA | ND | 0.05 | 0.1 | ng/dry g | |
| 4,4'-DDD | NA | ND | 0.05 | 0.1 | ng/dry g | |
| 4,4'-DDE | NA | 2.4 | 0.05 | 0.1 | ng/dry g | |
| 4,4'-DDMU | NA | ND | 0.05 | 0.1 | ng/dry g | |
| 4,4'-DDT | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Aldrin | NA | ND | 0.05 | 0.1 | ng/dry g | |
| BHC-alpha | NA | ND | 0.05 | 0.1 | ng/dry g | |
| BHC-beta | NA | ND | 0.05 | 0.1 | ng/dry g | |



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Chlorinated Pesticides

ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|--------------------|----------|--------|------|-----|----------|---------|
| BHC-delta | NA | ND | 0.05 | 0.1 | ng/dry g | |
| BHC-gamma | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Chlordane-alpha | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Chlordane-gamma | NA | ND | 0.05 | 0.1 | ng/dry g | |
| cis-Nonachlor | NA | ND | 0.05 | 0.1 | ng/dry g | |
| DCPA (Dacthal) | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Dicofol | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Dieldrin | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endosulfan Sulfate | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endosulfan-I | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endosulfan-II | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endrin | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endrin Aldehyde | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endrin Ketone | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Heptachlor | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Heptachlor Epoxide | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Hexachlorobenzene | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Methoxychlor | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Mirex | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Oxychlordane | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Perthane | NA | ND | 0.05 | 0.1 | ng/dry g | |
| trans-Nonachlor | NA | ND | 0.05 | 0.1 | ng/dry g | |

Method: EPA 8270C-NCI

Batch ID: O-6005

Prepared: 24-Aug-13

Analyzed: 06-Sep-13

| | | | | | | |
|-----------|----|----|-----|-----|----------|--|
| Toxaphene | NA | ND | 0.1 | 0.2 | ng/dry g | |
|-----------|----|----|-----|-----|----------|--|

Sample ID: 21752-R1

B13-8384

Matrix: Sediment

Sampled: 12-Jul-13 9:13

Received: 13-Jul-13

Method: EPA 8270C

Batch ID: O-6005

Prepared: 24-Aug-13

Analyzed: 06-Sep-13

| | | | | | | |
|----------|----|-----|------|-----|------------|--|
| (PCB030) | NA | 94 | | | % Recovery | |
| (PCB112) | NA | 104 | | | % Recovery | |
| (PCB198) | NA | 92 | | | % Recovery | |
| (TCMX) | NA | 88 | | | % Recovery | |
| 2,4'-DDD | NA | ND | 0.05 | 0.1 | ng/dry g | |
| 2,4'-DDE | NA | ND | 0.05 | 0.1 | ng/dry g | |



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Chlorinated Pesticides

ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|--------------------|----------|--------|------|-----|----------|---------|
| 2,4'-DDT | NA | ND | 0.05 | 0.1 | ng/dry g | |
| 4,4'-DDD | NA | ND | 0.05 | 0.1 | ng/dry g | |
| 4,4'-DDE | NA | 1.1 | 0.05 | 0.1 | ng/dry g | |
| 4,4'-DDMU | NA | ND | 0.05 | 0.1 | ng/dry g | |
| 4,4'-DDT | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Aldrin | NA | ND | 0.05 | 0.1 | ng/dry g | |
| BHC-alpha | NA | ND | 0.05 | 0.1 | ng/dry g | |
| BHC-beta | NA | ND | 0.05 | 0.1 | ng/dry g | |
| BHC-delta | NA | ND | 0.05 | 0.1 | ng/dry g | |
| BHC-gamma | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Chlordane-alpha | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Chlordane-gamma | NA | ND | 0.05 | 0.1 | ng/dry g | |
| cis-Nonachlor | NA | ND | 0.05 | 0.1 | ng/dry g | |
| DCPA (Dacthal) | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Dicofol | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Dieldrin | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endosulfan Sulfate | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endosulfan-I | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endosulfan-II | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endrin | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endrin Aldehyde | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endrin Ketone | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Heptachlor | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Heptachlor Epoxide | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Hexachlorobenzene | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Methoxychlor | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Mirex | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Oxychlordane | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Perthane | NA | ND | 0.05 | 0.1 | ng/dry g | |
| trans-Nonachlor | NA | ND | 0.05 | 0.1 | ng/dry g | |

Method: EPA 8270C-NCI

Batch ID: O-6005

Prepared: 24-Aug-13

Analyzed: 06-Sep-13

| | | | | | | |
|-----------|----|----|-----|-----|----------|--|
| Toxaphene | NA | ND | 0.1 | 0.2 | ng/dry g | |
|-----------|----|----|-----|-----|----------|--|



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Chlorinated Pesticides

ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|----------------------------|-------------------|-------------------------|------|---------------------|------------|---------------------|
| Sample ID: 21753-R1 | B13-8397 | Matrix: Sediment | | | | |
| | Method: EPA 8270C | Batch ID: O-6001 | | | | |
| | | | | Sampled: 12-Jul-13 | 11:20 | Received: 13-Jul-13 |
| | | | | Prepared: 09-Aug-13 | | Analyzed: 30-Aug-13 |
| (PCB030) | NA | 104 | | | % Recovery | |
| (PCB112) | NA | 108 | | | % Recovery | |
| (PCB198) | NA | 101 | | | % Recovery | |
| (TCMX) | NA | 104 | | | % Recovery | |
| 2,4'-DDD | NA | ND | 0.05 | 0.1 | ng/dry g | |
| 2,4'-DDE | NA | 0.8 | 0.05 | 0.1 | ng/dry g | |
| 2,4'-DDT | NA | ND | 0.05 | 0.1 | ng/dry g | |
| 4,4'-DDD | NA | 3 | 0.05 | 0.1 | ng/dry g | |
| 4,4'-DDE | NA | 10.4 | 0.05 | 0.1 | ng/dry g | |
| 4,4'-DDMU | NA | ND | 0.05 | 0.1 | ng/dry g | |
| 4,4'-DDT | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Aldrin | NA | ND | 0.05 | 0.1 | ng/dry g | |
| BHC-alpha | NA | ND | 0.05 | 0.1 | ng/dry g | |
| BHC-beta | NA | ND | 0.05 | 0.1 | ng/dry g | |
| BHC-delta | NA | ND | 0.05 | 0.1 | ng/dry g | |
| BHC-gamma | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Chlordane-alpha | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Chlordane-gamma | NA | 0.8 | 0.05 | 0.1 | ng/dry g | |
| cis-Nonachlor | NA | 0.5 | 0.05 | 0.1 | ng/dry g | |
| DCPA (Dacthal) | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Dicofol | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Dieldrin | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endosulfan Sulfate | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endosulfan-I | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endosulfan-II | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endrin | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endrin Aldehyde | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endrin Ketone | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Heptachlor | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Heptachlor Epoxide | NA | ND | 0.05 | 0.1 | ng/dry g | |



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CA ELAP #2769

Chlorinated Pesticides

ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|-----------------------|----------|------------------|------|---------------------|----------|---------------------|
| Hexachlorobenzene | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Methoxychlor | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Mirex | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Oxychlordane | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Perthane | NA | ND | 0.05 | 0.1 | ng/dry g | |
| trans-Nonachlor | NA | 0.7 | 0.05 | 0.1 | ng/dry g | |
| Method: EPA 8270C-NCI | | Batch ID: O-6001 | | Prepared: 09-Aug-13 | | Analyzed: 24-Aug-13 |
| Toxaphene | NA | ND | 0.1 | 0.2 | ng/dry g | |

Sample ID: 21754-R1

B13-8396

Matrix: Sediment

Sampled: 12-Jul-13

9:58

Received: 13-Jul-13

Method: EPA 8270C

Batch ID: O-6003

Prepared: 15-Aug-13

Analyzed: 30-Aug-13

| | | | | | | |
|-----------------|----|-----|------|-----|------------|--|
| (PCB030) | NA | 98 | | | % Recovery | |
| (PCB112) | NA | 100 | | | % Recovery | |
| (PCB198) | NA | 103 | | | % Recovery | |
| (TCMX) | NA | 96 | | | % Recovery | |
| 2,4'-DDD | NA | ND | 0.05 | 0.1 | ng/dry g | |
| 2,4'-DDE | NA | ND | 0.05 | 0.1 | ng/dry g | |
| 2,4'-DDT | NA | ND | 0.05 | 0.1 | ng/dry g | |
| 4,4'-DDD | NA | ND | 0.05 | 0.1 | ng/dry g | |
| 4,4'-DDE | NA | 1.5 | 0.05 | 0.1 | ng/dry g | |
| 4,4'-DDMU | NA | ND | 0.05 | 0.1 | ng/dry g | |
| 4,4'-DDT | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Aldrin | NA | ND | 0.05 | 0.1 | ng/dry g | |
| BHC-alpha | NA | ND | 0.05 | 0.1 | ng/dry g | |
| BHC-beta | NA | ND | 0.05 | 0.1 | ng/dry g | |
| BHC-delta | NA | ND | 0.05 | 0.1 | ng/dry g | |
| BHC-gamma | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Chlordane-alpha | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Chlordane-gamma | NA | ND | 0.05 | 0.1 | ng/dry g | |
| cis-Nonachlor | NA | ND | 0.05 | 0.1 | ng/dry g | |
| DCPA (Dacthal) | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Dicofol | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Dieldrin | NA | ND | 0.05 | 0.1 | ng/dry g | |



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CA ELAP #2769

Chlorinated Pesticides

ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|--------------------|----------|--------|------|-----|----------|---------|
| Endosulfan Sulfate | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endosulfan-I | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endosulfan-II | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endrin | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endrin Aldehyde | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endrin Ketone | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Heptachlor | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Heptachlor Epoxide | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Hexachlorobenzene | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Methoxychlor | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Mirex | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Oxychlorthane | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Perthane | NA | ND | 0.05 | 0.1 | ng/dry g | |
| trans-Nonachlor | NA | ND | 0.05 | 0.1 | ng/dry g | |

Method: EPA 8270C-NCI

Batch ID: O-6003

Prepared: 15-Aug-13

Analyzed: 26-Aug-13

| | | | | | | |
|-----------|----|----|-----|-----|----------|--|
| Toxaphene | NA | ND | 0.1 | 0.2 | ng/dry g | |
|-----------|----|----|-----|-----|----------|--|

Sample ID: 21755-R1

B13-8340

Matrix: Sediment

Sampled: 12-Jul-13

8:19

Received: 13-Jul-13

Method: EPA 8270C

Batch ID: O-6003

Prepared: 15-Aug-13

Analyzed: 30-Aug-13

| | | | | | | |
|-----------|----|-----|------|-----|------------|--|
| (PCB030) | NA | 99 | | | % Recovery | |
| (PCB112) | NA | 101 | | | % Recovery | |
| (PCB198) | NA | 95 | | | % Recovery | |
| (TCMX) | NA | 96 | | | % Recovery | |
| 2,4'-DDD | NA | ND | 0.05 | 0.1 | ng/dry g | |
| 2,4'-DDE | NA | ND | 0.05 | 0.1 | ng/dry g | |
| 2,4'-DDT | NA | ND | 0.05 | 0.1 | ng/dry g | |
| 4,4'-DDD | NA | ND | 0.05 | 0.1 | ng/dry g | |
| 4,4'-DDE | NA | 1.4 | 0.05 | 0.1 | ng/dry g | |
| 4,4'-DDMU | NA | ND | 0.05 | 0.1 | ng/dry g | |
| 4,4'-DDT | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Aldrin | NA | ND | 0.05 | 0.1 | ng/dry g | |
| BHC-alpha | NA | ND | 0.05 | 0.1 | ng/dry g | |
| BHC-beta | NA | ND | 0.05 | 0.1 | ng/dry g | |



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Chlorinated Pesticides

ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|--------------------|----------|--------|------|-----|----------|---------|
| BHC-delta | NA | ND | 0.05 | 0.1 | ng/dry g | |
| BHC-gamma | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Chlordane-alpha | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Chlordane-gamma | NA | ND | 0.05 | 0.1 | ng/dry g | |
| cis-Nonachlor | NA | ND | 0.05 | 0.1 | ng/dry g | |
| DCPA (Dacthal) | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Dicofol | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Dieldrin | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endosulfan Sulfate | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endosulfan-I | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endosulfan-II | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endrin | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endrin Aldehyde | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endrin Ketone | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Heptachlor | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Heptachlor Epoxide | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Hexachlorobenzene | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Methoxychlor | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Mirex | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Oxychlordane | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Perthane | NA | ND | 0.05 | 0.1 | ng/dry g | |
| trans-Nonachlor | NA | ND | 0.05 | 0.1 | ng/dry g | |

Method: EPA 8270C-NCI

Batch ID: O-6003

Prepared: 15-Aug-13

Analyzed: 26-Aug-13

| | | | | | | |
|-----------|----|----|-----|-----|----------|--|
| Toxaphene | NA | ND | 0.1 | 0.2 | ng/dry g | |
|-----------|----|----|-----|-----|----------|--|

Sample ID: 21756-R1

B13-8347

Matrix: Sediment

Sampled: 12-Jul-13

15:41

Received: 13-Jul-13

Method: EPA 8270C

Batch ID: O-6003

Prepared: 15-Aug-13

Analyzed: 30-Aug-13

| | | | | | | |
|----------|----|-----|------|-----|------------|--|
| (PCB030) | NA | 94 | | | % Recovery | |
| (PCB112) | NA | 99 | | | % Recovery | |
| (PCB198) | NA | 102 | | | % Recovery | |
| (TCMX) | NA | 88 | | | % Recovery | |
| 2,4'-DDD | NA | ND | 0.05 | 0.1 | ng/dry g | |
| 2,4'-DDE | NA | ND | 0.05 | 0.1 | ng/dry g | |

PHYSIS Project ID: 1307001-001

Client: AMEC

Project: POLA/POLB Harbor Toxics TMDL and Bight '13



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CA ELAP #2769

Chlorinated Pesticides

ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|--------------------|----------|--------|------|-----|----------|---------|
| 2,4'-DDT | NA | ND | 0.05 | 0.1 | ng/dry g | |
| 4,4'-DDD | NA | ND | 0.05 | 0.1 | ng/dry g | |
| 4,4'-DDE | NA | 1.1 | 0.05 | 0.1 | ng/dry g | |
| 4,4'-DDMU | NA | ND | 0.05 | 0.1 | ng/dry g | |
| 4,4'-DDT | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Aldrin | NA | ND | 0.05 | 0.1 | ng/dry g | |
| BHC-alpha | NA | ND | 0.05 | 0.1 | ng/dry g | |
| BHC-beta | NA | ND | 0.05 | 0.1 | ng/dry g | |
| BHC-delta | NA | ND | 0.05 | 0.1 | ng/dry g | |
| BHC-gamma | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Chlordane-alpha | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Chlordane-gamma | NA | ND | 0.05 | 0.1 | ng/dry g | |
| cis-Nonachlor | NA | ND | 0.05 | 0.1 | ng/dry g | |
| DCPA (Dacthal) | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Dicofol | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Dieldrin | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endosulfan Sulfate | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endosulfan-I | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endosulfan-II | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endrin | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endrin Aldehyde | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endrin Ketone | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Heptachlor | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Heptachlor Epoxide | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Hexachlorobenzene | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Methoxychlor | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Mirex | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Oxychlordane | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Perthane | NA | ND | 0.05 | 0.1 | ng/dry g | |
| trans-Nonachlor | NA | ND | 0.05 | 0.1 | ng/dry g | |

Method: EPA 8270C-NCI

Batch ID: O-6003

Prepared: 15-Aug-13

Analyzed: 26-Aug-13

| | | | | | | |
|-----------|----|----|-----|-----|----------|--|
| Toxaphene | NA | ND | 0.1 | 0.2 | ng/dry g | |
|-----------|----|----|-----|-----|----------|--|



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CA ELAP #2769

Chlorinated Pesticides

ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|----------------------------|-------------------|-------------------------|------|---------------------------|--------------|----------------------------|
| Sample ID: 21757-R1 | TMDL6-CP | Matrix: Sediment | | | | |
| | Method: EPA 8270C | Batch ID: O-6003 | | | | |
| | | | | Sampled: 12-Jul-13 | 15:41 | Received: 13-Jul-13 |
| | | | | Prepared: 15-Aug-13 | | Analyzed: 30-Aug-13 |
| (PCB030) | NA | 99 | | | % Recovery | |
| (PCB112) | NA | 102 | | | % Recovery | |
| (PCB198) | NA | 101 | | | % Recovery | |
| (TCMX) | NA | 99 | | | % Recovery | |
| 2,4'-DDD | NA | ND | 0.05 | 0.1 | ng/dry g | |
| 2,4'-DDE | NA | ND | 0.05 | 0.1 | ng/dry g | |
| 2,4'-DDT | NA | ND | 0.05 | 0.1 | ng/dry g | |
| 4,4'-DDD | NA | ND | 0.05 | 0.1 | ng/dry g | |
| 4,4'-DDE | NA | 0.6 | 0.05 | 0.1 | ng/dry g | |
| 4,4'-DDMU | NA | ND | 0.05 | 0.1 | ng/dry g | |
| 4,4'-DDT | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Aldrin | NA | ND | 0.05 | 0.1 | ng/dry g | |
| BHC-alpha | NA | ND | 0.05 | 0.1 | ng/dry g | |
| BHC-beta | NA | ND | 0.05 | 0.1 | ng/dry g | |
| BHC-delta | NA | ND | 0.05 | 0.1 | ng/dry g | |
| BHC-gamma | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Chlordane-alpha | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Chlordane-gamma | NA | ND | 0.05 | 0.1 | ng/dry g | |
| cis-Nonachlor | NA | ND | 0.05 | 0.1 | ng/dry g | |
| DCPA (Dacthal) | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Dicofol | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Dieldrin | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endosulfan Sulfate | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endosulfan-I | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endosulfan-II | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endrin | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endrin Aldehyde | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endrin Ketone | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Heptachlor | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Heptachlor Epoxide | NA | ND | 0.05 | 0.1 | ng/dry g | |



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ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|-----------------------|----------|------------------|------|---------------------|----------|---------------------|
| Hexachlorobenzene | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Methoxychlor | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Mirex | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Oxychlordane | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Perthane | NA | ND | 0.05 | 0.1 | ng/dry g | |
| trans-Nonachlor | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Method: EPA 8270C-NCI | | Batch ID: O-6003 | | Prepared: 15-Aug-13 | | Analyzed: 26-Aug-13 |
| Toxaphene | NA | ND | 0.1 | 0.2 | ng/dry g | |

Sample ID: 21758-R1

TMDL4-CS

Matrix: Sediment

Sampled: 12-Jul-13

12:20

Received: 13-Jul-13

Method: EPA 8270C

Batch ID: O-6003

Prepared: 15-Aug-13

Analyzed: 30-Aug-13

| | | | | | | |
|-----------------|----|------|------|-----|------------|--|
| (PCB030) | NA | 92 | | | % Recovery | |
| (PCB112) | NA | 103 | | | % Recovery | |
| (PCB198) | NA | 83 | | | % Recovery | |
| (TCMX) | NA | 88 | | | % Recovery | |
| 2,4'-DDD | NA | ND | 0.05 | 0.1 | ng/dry g | |
| 2,4'-DDE | NA | ND | 0.05 | 0.1 | ng/dry g | |
| 2,4'-DDT | NA | ND | 0.05 | 0.1 | ng/dry g | |
| 4,4'-DDD | NA | 5.6 | 0.05 | 0.1 | ng/dry g | |
| 4,4'-DDE | NA | 10.1 | 0.05 | 0.1 | ng/dry g | |
| 4,4'-DDMU | NA | ND | 0.05 | 0.1 | ng/dry g | |
| 4,4'-DDT | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Aldrin | NA | ND | 0.05 | 0.1 | ng/dry g | |
| BHC-alpha | NA | ND | 0.05 | 0.1 | ng/dry g | |
| BHC-beta | NA | ND | 0.05 | 0.1 | ng/dry g | |
| BHC-delta | NA | ND | 0.05 | 0.1 | ng/dry g | |
| BHC-gamma | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Chlordane-alpha | NA | 1.9 | 0.05 | 0.1 | ng/dry g | |
| Chlordane-gamma | NA | 2.1 | 0.05 | 0.1 | ng/dry g | |
| cis-Nonachlor | NA | 0.7 | 0.05 | 0.1 | ng/dry g | |
| DCPA (Dacthal) | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Dicofol | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Dieldrin | NA | ND | 0.05 | 0.1 | ng/dry g | |



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ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|--------------------|----------|--------|------|-----|----------|---------|
| Endosulfan Sulfate | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endosulfan-I | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endosulfan-II | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endrin | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endrin Aldehyde | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endrin Ketone | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Heptachlor | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Heptachlor Epoxide | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Hexachlorobenzene | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Methoxychlor | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Mirex | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Oxychlorthane | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Perthane | NA | ND | 0.05 | 0.1 | ng/dry g | |
| trans-Nonachlor | NA | 1.5 | 0.05 | 0.1 | ng/dry g | |

Method: EPA 8270C-NCI

Batch ID: O-6003

Prepared: 15-Aug-13

Analyzed: 26-Aug-13

| | | | | | | |
|-----------|----|----|-----|-----|----------|--|
| Toxaphene | NA | ND | 0.1 | 0.2 | ng/dry g | |
|-----------|----|----|-----|-----|----------|--|

Sample ID: 21759-R1

TMDL3-TB

Matrix: Sediment

Sampled: 12-Jul-13

15:41

Received: 13-Jul-13

Method: EPA 8270C

Batch ID: O-6003

Prepared: 15-Aug-13

Analyzed: 30-Aug-13

| | | | | | | |
|-----------|----|-----|------|-----|------------|--|
| (PCB030) | NA | 99 | | | % Recovery | |
| (PCB112) | NA | 101 | | | % Recovery | |
| (PCB198) | NA | 100 | | | % Recovery | |
| (TCMX) | NA | 101 | | | % Recovery | |
| 2,4'-DDD | NA | ND | 0.05 | 0.1 | ng/dry g | |
| 2,4'-DDE | NA | ND | 0.05 | 0.1 | ng/dry g | |
| 2,4'-DDT | NA | ND | 0.05 | 0.1 | ng/dry g | |
| 4,4'-DDD | NA | ND | 0.05 | 0.1 | ng/dry g | |
| 4,4'-DDE | NA | ND | 0.05 | 0.1 | ng/dry g | |
| 4,4'-DDMU | NA | ND | 0.05 | 0.1 | ng/dry g | |
| 4,4'-DDT | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Aldrin | NA | ND | 0.05 | 0.1 | ng/dry g | |
| BHC-alpha | NA | ND | 0.05 | 0.1 | ng/dry g | |
| BHC-beta | NA | ND | 0.05 | 0.1 | ng/dry g | |



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| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|--------------------|----------|--------|------|-----|----------|---------|
| BHC-delta | NA | ND | 0.05 | 0.1 | ng/dry g | |
| BHC-gamma | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Chlordane-alpha | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Chlordane-gamma | NA | ND | 0.05 | 0.1 | ng/dry g | |
| cis-Nonachlor | NA | ND | 0.05 | 0.1 | ng/dry g | |
| DCPA (Dacthal) | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Dicofol | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Dieldrin | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endosulfan Sulfate | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endosulfan-I | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endosulfan-II | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endrin | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endrin Aldehyde | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endrin Ketone | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Heptachlor | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Heptachlor Epoxide | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Hexachlorobenzene | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Methoxychlor | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Mirex | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Oxychlordane | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Perthane | NA | ND | 0.05 | 0.1 | ng/dry g | |
| trans-Nonachlor | NA | ND | 0.05 | 0.1 | ng/dry g | |

Method: EPA 8270C-NCI

Batch ID: O-6003

Prepared: 15-Aug-13

Analyzed: 26-Aug-13

| | | | | | | |
|-----------|----|----|-----|-----|----------|--|
| Toxaphene | NA | ND | 0.1 | 0.2 | ng/dry g | |
|-----------|----|----|-----|-----|----------|--|

Sample ID: 21760-R1

B13-8365

Matrix: Sediment

Sampled: 13-Jul-13

8:37

Received: 13-Jul-13

Method: EPA 8270C

Batch ID: O-6003

Prepared: 15-Aug-13

Analyzed: 30-Aug-13

| | | | | | | |
|----------|----|----|------|-----|------------|--|
| (PCB030) | NA | 91 | | | % Recovery | |
| (PCB112) | NA | 96 | | | % Recovery | |
| (PCB198) | NA | 98 | | | % Recovery | |
| (TCMX) | NA | 87 | | | % Recovery | |
| 2,4'-DDD | NA | ND | 0.05 | 0.1 | ng/dry g | |
| 2,4'-DDE | NA | ND | 0.05 | 0.1 | ng/dry g | |



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Chlorinated Pesticides

ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|--------------------|----------|--------|------|-----|----------|---------|
| 2,4'-DDT | NA | ND | 0.05 | 0.1 | ng/dry g | |
| 4,4'-DDD | NA | ND | 0.05 | 0.1 | ng/dry g | |
| 4,4'-DDE | NA | ND | 0.05 | 0.1 | ng/dry g | |
| 4,4'-DDMU | NA | ND | 0.05 | 0.1 | ng/dry g | |
| 4,4'-DDT | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Aldrin | NA | ND | 0.05 | 0.1 | ng/dry g | |
| BHC-alpha | NA | ND | 0.05 | 0.1 | ng/dry g | |
| BHC-beta | NA | ND | 0.05 | 0.1 | ng/dry g | |
| BHC-delta | NA | ND | 0.05 | 0.1 | ng/dry g | |
| BHC-gamma | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Chlordane-alpha | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Chlordane-gamma | NA | ND | 0.05 | 0.1 | ng/dry g | |
| cis-Nonachlor | NA | ND | 0.05 | 0.1 | ng/dry g | |
| DCPA (Dacthal) | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Dicofol | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Dieldrin | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endosulfan Sulfate | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endosulfan-I | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endosulfan-II | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endrin | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endrin Aldehyde | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endrin Ketone | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Heptachlor | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Heptachlor Epoxide | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Hexachlorobenzene | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Methoxychlor | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Mirex | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Oxychlordane | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Perthane | NA | ND | 0.05 | 0.1 | ng/dry g | |
| trans-Nonachlor | NA | ND | 0.05 | 0.1 | ng/dry g | |

Method: EPA 8270C-NCI

Batch ID: O-6003

Prepared: 15-Aug-13

Analyzed: 26-Aug-13

| | | | | | | |
|-----------|----|----|-----|-----|----------|--|
| Toxaphene | NA | ND | 0.1 | 0.2 | ng/dry g | |
|-----------|----|----|-----|-----|----------|--|



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Chlorinated Pesticides

ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|----------------------------|-------------------|-------------------------|------|---------------------------|--------------|----------------------------|
| Sample ID: 21761-R1 | B13-8318 | Matrix: Sediment | | | | |
| | Method: EPA 8270C | Batch ID: O-6003 | | | | |
| | | | | Sampled: 13-Jul-13 | 10:57 | Received: 13-Jul-13 |
| | | | | Prepared: 15-Aug-13 | | Analyzed: 30-Aug-13 |
| (PCB030) | NA | 99 | | | % Recovery | |
| (PCB112) | NA | 99 | | | % Recovery | |
| (PCB198) | NA | 98 | | | % Recovery | |
| (TCMX) | NA | 93 | | | % Recovery | |
| 2,4'-DDD | NA | ND | 0.05 | 0.1 | ng/dry g | |
| 2,4'-DDE | NA | ND | 0.05 | 0.1 | ng/dry g | |
| 2,4'-DDT | NA | ND | 0.05 | 0.1 | ng/dry g | |
| 4,4'-DDD | NA | ND | 0.05 | 0.1 | ng/dry g | |
| 4,4'-DDE | NA | 0.6 | 0.05 | 0.1 | ng/dry g | |
| 4,4'-DDMU | NA | ND | 0.05 | 0.1 | ng/dry g | |
| 4,4'-DDT | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Aldrin | NA | ND | 0.05 | 0.1 | ng/dry g | |
| BHC-alpha | NA | ND | 0.05 | 0.1 | ng/dry g | |
| BHC-beta | NA | ND | 0.05 | 0.1 | ng/dry g | |
| BHC-delta | NA | ND | 0.05 | 0.1 | ng/dry g | |
| BHC-gamma | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Chlordane-alpha | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Chlordane-gamma | NA | ND | 0.05 | 0.1 | ng/dry g | |
| cis-Nonachlor | NA | ND | 0.05 | 0.1 | ng/dry g | |
| DCPA (Dacthal) | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Dicofol | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Dieldrin | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endosulfan Sulfate | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endosulfan-I | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endosulfan-II | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endrin | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endrin Aldehyde | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endrin Ketone | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Heptachlor | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Heptachlor Epoxide | NA | ND | 0.05 | 0.1 | ng/dry g | |



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Chlorinated Pesticides

ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|-----------------------|----------|------------------|------|---------------------|----------|---------------------|
| Hexachlorobenzene | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Methoxychlor | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Mirex | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Oxychlordane | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Perthane | NA | ND | 0.05 | 0.1 | ng/dry g | |
| trans-Nonachlor | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Method: EPA 8270C-NCI | | Batch ID: O-6003 | | Prepared: 15-Aug-13 | | Analyzed: 26-Aug-13 |
| Toxaphene | NA | ND | 0.1 | 0.2 | ng/dry g | |

Sample ID: 21762-R1

B13-8322

Matrix: Sediment

Sampled: 13-Jul-13

10:11

Received: 13-Jul-13

Method: EPA 8270C

Batch ID: O-6003

Prepared: 15-Aug-13

Analyzed: 30-Aug-13

| | | | | | | |
|-----------------|----|-----|------|-----|------------|--|
| (PCB030) | NA | 100 | | | % Recovery | |
| (PCB112) | NA | 97 | | | % Recovery | |
| (PCB198) | NA | 101 | | | % Recovery | |
| (TCMX) | NA | 100 | | | % Recovery | |
| 2,4'-DDD | NA | ND | 0.05 | 0.1 | ng/dry g | |
| 2,4'-DDE | NA | ND | 0.05 | 0.1 | ng/dry g | |
| 2,4'-DDT | NA | ND | 0.05 | 0.1 | ng/dry g | |
| 4,4'-DDD | NA | ND | 0.05 | 0.1 | ng/dry g | |
| 4,4'-DDE | NA | 1.2 | 0.05 | 0.1 | ng/dry g | |
| 4,4'-DDMU | NA | ND | 0.05 | 0.1 | ng/dry g | |
| 4,4'-DDT | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Aldrin | NA | ND | 0.05 | 0.1 | ng/dry g | |
| BHC-alpha | NA | ND | 0.05 | 0.1 | ng/dry g | |
| BHC-beta | NA | ND | 0.05 | 0.1 | ng/dry g | |
| BHC-delta | NA | ND | 0.05 | 0.1 | ng/dry g | |
| BHC-gamma | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Chlordane-alpha | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Chlordane-gamma | NA | ND | 0.05 | 0.1 | ng/dry g | |
| cis-Nonachlor | NA | ND | 0.05 | 0.1 | ng/dry g | |
| DCPA (Dacthal) | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Dicofol | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Dieldrin | NA | ND | 0.05 | 0.1 | ng/dry g | |



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Chlorinated Pesticides

ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|--------------------|----------|--------|------|-----|----------|---------|
| Endosulfan Sulfate | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endosulfan-I | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endosulfan-II | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endrin | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endrin Aldehyde | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endrin Ketone | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Heptachlor | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Heptachlor Epoxide | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Hexachlorobenzene | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Methoxychlor | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Mirex | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Oxychlorthane | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Perthane | NA | ND | 0.05 | 0.1 | ng/dry g | |
| trans-Nonachlor | NA | ND | 0.05 | 0.1 | ng/dry g | |

Method: EPA 8270C-NCI

Batch ID: O-6003

Prepared: 15-Aug-13

Analyzed: 26-Aug-13

| | | | | | | |
|-----------|----|----|-----|-----|----------|--|
| Toxaphene | NA | ND | 0.1 | 0.2 | ng/dry g | |
|-----------|----|----|-----|-----|----------|--|

Sample ID: 21763-R1

B13-8333

Matrix: Sediment

Sampled: 13-Jul-13

7:43

Received: 13-Jul-13

Method: EPA 8270C

Batch ID: O-6005

Prepared: 24-Aug-13

Analyzed: 06-Sep-13

| | | | | | | |
|-----------|----|-----|------|-----|------------|--|
| (PCB030) | NA | 93 | | | % Recovery | |
| (PCB112) | NA | 103 | | | % Recovery | |
| (PCB198) | NA | 92 | | | % Recovery | |
| (TCMX) | NA | 90 | | | % Recovery | |
| 2,4'-DDD | NA | ND | 0.05 | 0.1 | ng/dry g | |
| 2,4'-DDE | NA | 0.2 | 0.05 | 0.1 | ng/dry g | |
| 2,4'-DDT | NA | ND | 0.05 | 0.1 | ng/dry g | |
| 4,4'-DDD | NA | ND | 0.05 | 0.1 | ng/dry g | |
| 4,4'-DDE | NA | 1.3 | 0.05 | 0.1 | ng/dry g | |
| 4,4'-DDMU | NA | 0.5 | 0.05 | 0.1 | ng/dry g | |
| 4,4'-DDT | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Aldrin | NA | ND | 0.05 | 0.1 | ng/dry g | |
| BHC-alpha | NA | ND | 0.05 | 0.1 | ng/dry g | |
| BHC-beta | NA | ND | 0.05 | 0.1 | ng/dry g | |



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Chlorinated Pesticides

ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|--------------------|----------|--------|------|-----|----------|---------|
| BHC-delta | NA | ND | 0.05 | 0.1 | ng/dry g | |
| BHC-gamma | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Chlordane-alpha | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Chlordane-gamma | NA | ND | 0.05 | 0.1 | ng/dry g | |
| cis-Nonachlor | NA | ND | 0.05 | 0.1 | ng/dry g | |
| DCPA (Dacthal) | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Dicofol | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Dieldrin | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endosulfan Sulfate | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endosulfan-I | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endosulfan-II | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endrin | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endrin Aldehyde | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endrin Ketone | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Heptachlor | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Heptachlor Epoxide | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Hexachlorobenzene | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Methoxychlor | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Mirex | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Oxychlordane | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Perthane | NA | ND | 0.05 | 0.1 | ng/dry g | |
| trans-Nonachlor | NA | ND | 0.05 | 0.1 | ng/dry g | |

Method: EPA 8270C-NCI

Batch ID: O-6005

Prepared: 24-Aug-13

Analyzed: 06-Sep-13

| | | | | | | |
|-----------|----|----|-----|-----|----------|--|
| Toxaphene | NA | ND | 0.1 | 0.2 | ng/dry g | |
|-----------|----|----|-----|-----|----------|--|

Sample ID: 21764-R1

B13-8356

Matrix: Sediment

Sampled: 13-Jul-13

9:22

Received: 13-Jul-13

Method: EPA 8270C

Batch ID: O-6005

Prepared: 24-Aug-13

Analyzed: 06-Sep-13

| | | | | | | |
|----------|----|-----|------|-----|------------|--|
| (PCB030) | NA | 89 | | | % Recovery | |
| (PCB112) | NA | 98 | | | % Recovery | |
| (PCB198) | NA | 105 | | | % Recovery | |
| (TCMX) | NA | 87 | | | % Recovery | |
| 2,4'-DDD | NA | ND | 0.05 | 0.1 | ng/dry g | |
| 2,4'-DDE | NA | 0.2 | 0.05 | 0.1 | ng/dry g | |



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Chlorinated Pesticides

ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|--------------------|----------|--------|------|-----|----------|---------|
| 2,4'-DDT | NA | ND | 0.05 | 0.1 | ng/dry g | |
| 4,4'-DDD | NA | ND | 0.05 | 0.1 | ng/dry g | |
| 4,4'-DDE | NA | 1.1 | 0.05 | 0.1 | ng/dry g | |
| 4,4'-DDMU | NA | 0.5 | 0.05 | 0.1 | ng/dry g | |
| 4,4'-DDT | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Aldrin | NA | ND | 0.05 | 0.1 | ng/dry g | |
| BHC-alpha | NA | ND | 0.05 | 0.1 | ng/dry g | |
| BHC-beta | NA | ND | 0.05 | 0.1 | ng/dry g | |
| BHC-delta | NA | ND | 0.05 | 0.1 | ng/dry g | |
| BHC-gamma | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Chlordane-alpha | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Chlordane-gamma | NA | ND | 0.05 | 0.1 | ng/dry g | |
| cis-Nonachlor | NA | ND | 0.05 | 0.1 | ng/dry g | |
| DCPA (Dacthal) | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Dicofol | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Dieldrin | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endosulfan Sulfate | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endosulfan-I | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endosulfan-II | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endrin | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endrin Aldehyde | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Endrin Ketone | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Heptachlor | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Heptachlor Epoxide | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Hexachlorobenzene | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Methoxychlor | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Mirex | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Oxychlordane | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Perthane | NA | ND | 0.05 | 0.1 | ng/dry g | |
| trans-Nonachlor | NA | ND | 0.05 | 0.1 | ng/dry g | |

Method: EPA 8270C-NCI

Batch ID: O-6005

Prepared: 24-Aug-13

Analyzed: 06-Sep-13

| | | | | | | |
|-----------|----|----|-----|-----|----------|--|
| Toxaphene | NA | ND | 0.1 | 0.2 | ng/dry g | |
|-----------|----|----|-----|-----|----------|--|



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Conventionals

ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|----------------------------|--------------------------|-------------------------|------|------|--------------|---------|
| Sample ID: 21733-R1 | B13-8382 | Matrix: Sediment | | | | |
| | Method: SM 4500-NH3 D | Batch ID: C-13136 | | | | |
| Ammonia as N | NA | 14.33 | 0.02 | 0.03 | mg/dry kg | |
| | Method: Plumb, 1981/TERL | Batch ID: C-13145 | | | | |
| Total Sulfides | NA | 5.4 | 0.2 | 0.4 | mg/dry kg | |
| | Method: SM 2540B | Batch ID: E-5121 | | | | |
| Percent Solids | NA | 60.8 | 0.1 | 0.1 | % Dry Weight | |
| | | | | | | |
| Sample ID: 21734-R1 | B13-8374 | Matrix: Sediment | | | | |
| | Method: SM 4500-NH3 D | Batch ID: C-13136 | | | | |
| Ammonia as N | NA | 8.04 | 0.02 | 0.03 | mg/dry kg | |
| | Method: Plumb, 1981/TERL | Batch ID: C-13145 | | | | |
| Total Sulfides | NA | 6.4 | 0.2 | 0.4 | mg/dry kg | |
| | Method: SM 2540B | Batch ID: E-5121 | | | | |
| Percent Solids | NA | 50.7 | 0.1 | 0.1 | % Dry Weight | |
| | | | | | | |
| Sample ID: 21735-R1 | B13-8371 | Matrix: Sediment | | | | |
| | Method: SM 4500-NH3 D | Batch ID: C-13136 | | | | |
| Ammonia as N | NA | 6.83 | 0.02 | 0.03 | mg/dry kg | |
| | Method: Plumb, 1981/TERL | Batch ID: C-13145 | | | | |
| Total Sulfides | NA | 5.4 | 0.2 | 0.4 | mg/dry kg | |
| | Method: SM 2540B | Batch ID: E-5121 | | | | |
| Percent Solids | NA | 66 | 0.1 | 0.1 | % Dry Weight | |
| | | | | | | |
| Sample ID: 21736-R1 | B13-8363 | Matrix: Sediment | | | | |
| | Method: SM 4500-NH3 D | Batch ID: C-13136 | | | | |
| Ammonia as N | NA | 8.84 | 0.02 | 0.03 | mg/dry kg | |
| | Method: Plumb, 1981/TERL | Batch ID: C-13145 | | | | |
| Total Sulfides | NA | 5 | 0.2 | 0.4 | mg/dry kg | |
| | Method: SM 2540B | Batch ID: E-5121 | | | | |
| Percent Solids | NA | 62.9 | 0.1 | 0.1 | % Dry Weight | |
| | | | | | | |
| Sample ID: 21737-R1 | B13-8360 | Matrix: Sediment | | | | |



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ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|---|-----------------------------------|-------------------|------|---------------------|--------------|---------------------|
| | Method: SM 4500-NH ₃ D | Batch ID: C-13136 | | Prepared: 05-Sep-13 | | Analyzed: 05-Sep-13 |
| Ammonia as N | NA | 6.06 | 0.02 | 0.03 | mg/dry kg | |
| | Method: Plumb, 1981/TERL | Batch ID: C-13145 | | Prepared: 09-Sep-13 | | Analyzed: 09-Sep-13 |
| Total Sulfides | NA | 2 | 0.2 | 0.4 | mg/dry kg | |
| | Method: SM 2540B | Batch ID: E-5121 | | Prepared: 02-Aug-13 | | Analyzed: 02-Aug-13 |
| Percent Solids | NA | 70.5 | 0.1 | 0.1 | % Dry Weight | |
| Sample ID: 21738-R1 B13-8349 Matrix: Sediment Sampled: 10-Jul-13 9:51 Received: 13-Jul-13 | | | | | | |
| | Method: SM 4500-NH ₃ D | Batch ID: C-13136 | | Prepared: 05-Sep-13 | | Analyzed: 05-Sep-13 |
| Ammonia as N | NA | 20.16 | 0.02 | 0.03 | mg/dry kg | |
| | Method: Plumb, 1981/TERL | Batch ID: C-13145 | | Prepared: 09-Sep-13 | | Analyzed: 09-Sep-13 |
| Total Sulfides | NA | 8.7 | 0.2 | 0.4 | mg/dry kg | |
| | Method: SM 2540B | Batch ID: E-5121 | | Prepared: 02-Aug-13 | | Analyzed: 02-Aug-13 |
| Percent Solids | NA | 45.4 | 0.1 | 0.1 | % Dry Weight | |
| Sample ID: 21739-R1 B13-8326 Matrix: Sediment Sampled: 10-Jul-13 8:28 Received: 13-Jul-13 | | | | | | |
| | Method: SM 4500-NH ₃ D | Batch ID: C-13136 | | Prepared: 05-Sep-13 | | Analyzed: 05-Sep-13 |
| Ammonia as N | NA | 5.43 | 0.02 | 0.03 | mg/dry kg | |
| | Method: Plumb, 1981/TERL | Batch ID: C-13145 | | Prepared: 09-Sep-13 | | Analyzed: 09-Sep-13 |
| Total Sulfides | NA | 4.6 | 0.2 | 0.4 | mg/dry kg | |
| | Method: SM 2540B | Batch ID: E-5121 | | Prepared: 02-Aug-13 | | Analyzed: 02-Aug-13 |
| Percent Solids | NA | 61.3 | 0.1 | 0.1 | % Dry Weight | |
| Sample ID: 21740-R1 B13-8367 Matrix: Sediment Sampled: 11-Jul-13 14:10 Received: 13-Jul-13 | | | | | | |
| | Method: SM 4500-NH ₃ D | Batch ID: C-13136 | | Prepared: 05-Sep-13 | | Analyzed: 05-Sep-13 |
| Ammonia as N | NA | 6.04 | 0.02 | 0.03 | mg/dry kg | |
| | Method: Plumb, 1981/TERL | Batch ID: C-13145 | | Prepared: 09-Sep-13 | | Analyzed: 09-Sep-13 |
| Total Sulfides | NA | 2.5 | 0.2 | 0.4 | mg/dry kg | |
| | Method: SM 2540B | Batch ID: E-5121 | | Prepared: 02-Aug-13 | | Analyzed: 02-Aug-13 |
| Percent Solids | NA | 67.2 | 0.1 | 0.1 | % Dry Weight | |
| Sample ID: 21741-R1 B13-8302 Matrix: Sediment Sampled: 11-Jul-13 9:29 Received: 13-Jul-13 | | | | | | |
| | Method: SM 4500-NH ₃ D | Batch ID: C-13136 | | Prepared: 05-Sep-13 | | Analyzed: 05-Sep-13 |
| Ammonia as N | NA | 22.47 | 0.02 | 0.03 | mg/dry kg | |



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ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|---|--------------------------|-------------------|------|---------------------|--------------|---------------------|
| | Method: Plumb, 1981/TERL | Batch ID: C-13145 | | Prepared: 09-Sep-13 | | Analyzed: 09-Sep-13 |
| Total Sulfides | NA | 64.9 | 0.2 | 0.4 | mg/dry kg | |
| | Method: SM 2540B | Batch ID: E-5121 | | Prepared: 02-Aug-13 | | Analyzed: 02-Aug-13 |
| Percent Solids | NA | 44.6 | 0.1 | 0.1 | % Dry Weight | |
| Sample ID: 21742-R1 B13-8304 Matrix: Sediment Sampled: 11-Jul-13 16:24 Received: 13-Jul-13 | | | | | | |
| | Method: SM 4500-NH3 D | Batch ID: C-13136 | | Prepared: 05-Sep-13 | | Analyzed: 05-Sep-13 |
| Ammonia as N | NA | 16.85 | 0.02 | 0.03 | mg/dry kg | |
| | Method: Plumb, 1981/TERL | Batch ID: C-13145 | | Prepared: 09-Sep-13 | | Analyzed: 09-Sep-13 |
| Total Sulfides | NA | 29.4 | 0.2 | 0.4 | mg/dry kg | |
| | Method: SM 2540B | Batch ID: E-5121 | | Prepared: 02-Aug-13 | | Analyzed: 02-Aug-13 |
| Percent Solids | NA | 50 | 0.1 | 0.1 | % Dry Weight | |
| Sample ID: 21743-R1 B13-8306 Matrix: Sediment Sampled: 11-Jul-13 13:00 Received: 13-Jul-13 | | | | | | |
| | Method: SM 4500-NH3 D | Batch ID: C-13136 | | Prepared: 05-Sep-13 | | Analyzed: 05-Sep-13 |
| Ammonia as N | NA | 14.52 | 0.02 | 0.03 | mg/dry kg | |
| | Method: Plumb, 1981/TERL | Batch ID: C-13145 | | Prepared: 09-Sep-13 | | Analyzed: 09-Sep-13 |
| Total Sulfides | NA | 7 | 0.2 | 0.4 | mg/dry kg | |
| | Method: SM 2540B | Batch ID: E-5121 | | Prepared: 02-Aug-13 | | Analyzed: 02-Aug-13 |
| Percent Solids | NA | 53.3 | 0.1 | 0.1 | % Dry Weight | |
| Sample ID: 21744-R1 B13-8308 Matrix: Sediment Sampled: 11-Jul-13 17:06 Received: 13-Jul-13 | | | | | | |
| | Method: SM 4500-NH3 D | Batch ID: C-13136 | | Prepared: 05-Sep-13 | | Analyzed: 05-Sep-13 |
| Ammonia as N | NA | 12.47 | 0.02 | 0.03 | mg/dry kg | |
| | Method: Plumb, 1981/TERL | Batch ID: C-13145 | | Prepared: 09-Sep-13 | | Analyzed: 09-Sep-13 |
| Total Sulfides | NA | 5.6 | 0.2 | 0.4 | mg/dry kg | |
| | Method: SM 2540B | Batch ID: E-5121 | | Prepared: 02-Aug-13 | | Analyzed: 02-Aug-13 |
| Percent Solids | NA | 54 | 0.1 | 0.1 | % Dry Weight | |
| Sample ID: 21745-R1 B13-8310 Matrix: Sediment Sampled: 11-Jul-13 17:51 Received: 13-Jul-13 | | | | | | |
| | Method: SM 4500-NH3 D | Batch ID: C-13136 | | Prepared: 05-Sep-13 | | Analyzed: 05-Sep-13 |
| Ammonia as N | NA | 7.54 | 0.02 | 0.03 | mg/dry kg | |
| | Method: Plumb, 1981/TERL | Batch ID: C-13145 | | Prepared: 09-Sep-13 | | Analyzed: 09-Sep-13 |
| Total Sulfides | NA | 5.8 | 0.2 | 0.4 | mg/dry kg | |



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Conventionals

ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|----------------------------|-----------------|-------------------------|---------------------------|--------------|----------------------------|---------|
| Method: SM 2540B | | Batch ID: E-5121 | Prepared: 02-Aug-13 | | Analyzed: 02-Aug-13 | |
| Percent Solids | NA | 57.4 | 0.1 | 0.1 | % Dry Weight | |
| Sample ID: 21746-R1 | B13-8316 | Matrix: Sediment | Sampled: 11-Jul-13 | 10:23 | Received: 13-Jul-13 | |
| Method: SM 4500-NH3 D | | Batch ID: C-13136 | Prepared: 05-Sep-13 | | Analyzed: 05-Sep-13 | |
| Ammonia as N | NA | 12.65 | 0.02 | 0.03 | mg/dry kg | |
| Method: Plumb, 1981/TERL | | Batch ID: C-13145 | Prepared: 09-Sep-13 | | Analyzed: 09-Sep-13 | |
| Total Sulfides | NA | 4.2 | 0.2 | 0.4 | mg/dry kg | |
| Method: SM 2540B | | Batch ID: E-5121 | Prepared: 02-Aug-13 | | Analyzed: 02-Aug-13 | |
| Percent Solids | NA | 46.5 | 0.1 | 0.1 | % Dry Weight | |
| Sample ID: 21747-R1 | TMDL2-FH | Matrix: Sediment | Sampled: 11-Jul-13 | 15:25 | Received: 13-Jul-13 | |
| Method: SM 4500-NH3 D | | Batch ID: C-13136 | Prepared: 05-Sep-13 | | Analyzed: 05-Sep-13 | |
| Ammonia as N | NA | 26.91 | 0.02 | 0.03 | mg/dry kg | |
| Method: Plumb, 1981/TERL | | Batch ID: C-13145 | Prepared: 09-Sep-13 | | Analyzed: 09-Sep-13 | |
| Total Sulfides | NA | 18.9 | 0.2 | 0.4 | mg/dry kg | |
| Method: SM 2540B | | Batch ID: E-5121 | Prepared: 02-Aug-13 | | Analyzed: 02-Aug-13 | |
| Percent Solids | NA | 42.3 | 0.1 | 0.1 | % Dry Weight | |
| Sample ID: 21748-R1 | TMDL1-CH | Matrix: Sediment | Sampled: 11-Jul-13 | 12:07 | Received: 13-Jul-13 | |
| Method: SM 4500-NH3 D | | Batch ID: C-13136 | Prepared: 05-Sep-13 | | Analyzed: 05-Sep-13 | |
| Ammonia as N | NA | 17.95 | 0.02 | 0.03 | mg/dry kg | |
| Method: Plumb, 1981/TERL | | Batch ID: C-13145 | Prepared: 09-Sep-13 | | Analyzed: 09-Sep-13 | |
| Total Sulfides | NA | 13.9 | 0.2 | 0.4 | mg/dry kg | |
| Method: SM 2540B | | Batch ID: E-5121 | Prepared: 02-Aug-13 | | Analyzed: 02-Aug-13 | |
| Percent Solids | NA | 36.8 | 0.1 | 0.1 | % Dry Weight | |
| Sample ID: 21749-R1 | TMDL5-DT | Matrix: Sediment | Sampled: 11-Jul-13 | 15:25 | Received: 13-Jul-13 | |
| Method: SM 4500-NH3 D | | Batch ID: C-13136 | Prepared: 05-Sep-13 | | Analyzed: 05-Sep-13 | |
| Ammonia as N | NA | 26.04 | 0.02 | 0.03 | mg/dry kg | |
| Method: Plumb, 1981/TERL | | Batch ID: C-13145 | Prepared: 09-Sep-13 | | Analyzed: 09-Sep-13 | |
| Total Sulfides | NA | 589.5 | 0.2 | 0.4 | mg/dry kg | |
| Method: SM 2540B | | Batch ID: E-5121 | Prepared: 02-Aug-13 | | Analyzed: 02-Aug-13 | |
| Percent Solids | NA | 33.3 | 0.1 | 0.1 | % Dry Weight | |



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Conventionals

ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|----------------------------|-----------------------------------|-------------------------|------|------|--------------|---------|
| Sample ID: 21750-R1 | B13-8401 | Matrix: Sediment | | | | |
| | Method: SM 4500-NH ₃ D | Batch ID: C-13136 | | | | |
| Ammonia as N | NA | 15.38 | 0.02 | 0.03 | mg/dry kg | |
| | Method: Plumb, 1981/TERL | Batch ID: C-13145 | | | | |
| Total Sulfides | NA | 21.2 | 0.2 | 0.4 | mg/dry kg | |
| | Method: SM 2540B | Batch ID: E-5121 | | | | |
| Percent Solids | NA | 43.9 | 0.1 | 0.1 | % Dry Weight | |
| | | | | | | |
| Sample ID: 21751-R1 | B13-8399 | Matrix: Sediment | | | | |
| | Method: SM 4500-NH ₃ D | Batch ID: C-13136 | | | | |
| Ammonia as N | NA | 15.95 | 0.02 | 0.03 | mg/dry kg | |
| | Method: Plumb, 1981/TERL | Batch ID: C-13145 | | | | |
| Total Sulfides | NA | 19.3 | 0.2 | 0.4 | mg/dry kg | |
| | Method: SM 2540B | Batch ID: E-5121 | | | | |
| Percent Solids | NA | 45.2 | 0.1 | 0.1 | % Dry Weight | |
| | | | | | | |
| Sample ID: 21752-R1 | B13-8384 | Matrix: Sediment | | | | |
| | Method: SM 4500-NH ₃ D | Batch ID: C-13136 | | | | |
| Ammonia as N | NA | 13.64 | 0.02 | 0.03 | mg/dry kg | |
| | Method: Plumb, 1981/TERL | Batch ID: C-13145 | | | | |
| Total Sulfides | NA | 9.5 | 0.2 | 0.4 | mg/dry kg | |
| | Method: SM 2540B | Batch ID: E-5121 | | | | |
| Percent Solids | NA | 50.3 | 0.1 | 0.1 | % Dry Weight | |
| | | | | | | |
| Sample ID: 21753-R1 | B13-8397 | Matrix: Sediment | | | | |
| | Method: SM 4500-NH ₃ D | Batch ID: C-13138 | | | | |
| Ammonia as N | NA | 34.87 | 0.02 | 0.03 | mg/dry kg | |
| | Method: Plumb, 1981/TERL | Batch ID: C-13147 | | | | |
| Total Sulfides | NA | 46.8 | 0.2 | 0.4 | mg/dry kg | |
| | Method: SM 2540B | Batch ID: E-5121 | | | | |
| Percent Solids | NA | 35.9 | 0.1 | 0.1 | % Dry Weight | |
| | | | | | | |
| Sample ID: 21754-R1 | B13-8396 | Matrix: Sediment | | | | |



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|---|-----------------------------------|-------------------|------|---------------------|--------------|---------------------|
| | Method: SM 4500-NH ₃ D | Batch ID: C-13138 | | Prepared: 06-Sep-13 | | Analyzed: 06-Sep-13 |
| Ammonia as N | NA | 10.87 | 0.02 | 0.03 | mg/dry kg | |
| | Method: Plumb, 1981/TERL | Batch ID: C-13147 | | Prepared: 09-Sep-13 | | Analyzed: 09-Sep-13 |
| Total Sulfides | NA | 9.3 | 0.2 | 0.4 | mg/dry kg | |
| | Method: SM 2540B | Batch ID: E-5121 | | Prepared: 02-Aug-13 | | Analyzed: 02-Aug-13 |
| Percent Solids | NA | 53.5 | 0.1 | 0.1 | % Dry Weight | |
| Sample ID: 21755-R1 B13-8340 Matrix: Sediment Sampled: 12-Jul-13 8:19 Received: 13-Jul-13 | | | | | | |
| | Method: SM 4500-NH ₃ D | Batch ID: C-13138 | | Prepared: 06-Sep-13 | | Analyzed: 06-Sep-13 |
| Ammonia as N | NA | 10.11 | 0.02 | 0.03 | mg/dry kg | |
| | Method: Plumb, 1981/TERL | Batch ID: C-13147 | | Prepared: 09-Sep-13 | | Analyzed: 09-Sep-13 |
| Total Sulfides | NA | 3 | 0.2 | 0.4 | mg/dry kg | |
| | Method: SM 2540B | Batch ID: E-5121 | | Prepared: 02-Aug-13 | | Analyzed: 02-Aug-13 |
| Percent Solids | NA | 51.2 | 0.1 | 0.1 | % Dry Weight | |
| Sample ID: 21756-R1 B13-8347 Matrix: Sediment Sampled: 12-Jul-13 15:41 Received: 13-Jul-13 | | | | | | |
| | Method: SM 4500-NH ₃ D | Batch ID: C-13138 | | Prepared: 06-Sep-13 | | Analyzed: 06-Sep-13 |
| Ammonia as N | NA | 10.63 | 0.02 | 0.03 | mg/dry kg | |
| | Method: Plumb, 1981/TERL | Batch ID: C-13147 | | Prepared: 09-Sep-13 | | Analyzed: 09-Sep-13 |
| Total Sulfides | NA | 17.7 | 0.2 | 0.4 | mg/dry kg | |
| | Method: SM 2540B | Batch ID: E-5121 | | Prepared: 02-Aug-13 | | Analyzed: 02-Aug-13 |
| Percent Solids | NA | 49.2 | 0.1 | 0.1 | % Dry Weight | |
| Sample ID: 21757-R1 TMDL6-CP Matrix: Sediment Sampled: 12-Jul-13 15:41 Received: 13-Jul-13 | | | | | | |
| | Method: SM 4500-NH ₃ D | Batch ID: C-13138 | | Prepared: 06-Sep-13 | | Analyzed: 06-Sep-13 |
| Ammonia as N | NA | 4.77 | 0.02 | 0.03 | mg/dry kg | |
| | Method: Plumb, 1981/TERL | Batch ID: C-13147 | | Prepared: 09-Sep-13 | | Analyzed: 09-Sep-13 |
| Total Sulfides | NA | 8 | 0.2 | 0.4 | mg/dry kg | |
| | Method: SM 2540B | Batch ID: E-5121 | | Prepared: 02-Aug-13 | | Analyzed: 02-Aug-13 |
| Percent Solids | NA | 64.5 | 0.1 | 0.1 | % Dry Weight | |
| Sample ID: 21758-R1 TMDL4-CS Matrix: Sediment Sampled: 12-Jul-13 12:20 Received: 13-Jul-13 | | | | | | |
| | Method: SM 4500-NH ₃ D | Batch ID: C-13138 | | Prepared: 06-Sep-13 | | Analyzed: 06-Sep-13 |
| Ammonia as N | NA | 45.04 | 0.02 | 0.03 | mg/dry kg | |



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|----------------------------|--------------------------|-------------------------|------|---------------------------------|--------------|----------------------------|
| | Method: Plumb, 1981/TERL | Batch ID: C-13147 | | Prepared: 09-Sep-13 | | Analyzed: 09-Sep-13 |
| Total Sulfides | NA | 836.9 | 0.2 | 0.4 | mg/dry kg | |
| | Method: SM 2540B | Batch ID: E-5121 | | Prepared: 02-Aug-13 | | Analyzed: 02-Aug-13 |
| Percent Solids | NA | 37.6 | 0.1 | 0.1 | % Dry Weight | |
| Sample ID: 21759-R1 | TMDL3-TB | Matrix: Sediment | | Sampled: 12-Jul-13 15:41 | | Received: 13-Jul-13 |
| | Method: SM 4500-NH3 D | Batch ID: C-13138 | | Prepared: 06-Sep-13 | | Analyzed: 06-Sep-13 |
| Ammonia as N | NA | 2.65 | 0.02 | 0.03 | mg/dry kg | |
| | Method: Plumb, 1981/TERL | Batch ID: C-13147 | | Prepared: 09-Sep-13 | | Analyzed: 09-Sep-13 |
| Total Sulfides | NA | 2.8 | 0.2 | 0.4 | mg/dry kg | |
| | Method: SM 2540B | Batch ID: E-5121 | | Prepared: 02-Aug-13 | | Analyzed: 02-Aug-13 |
| Percent Solids | NA | 71.8 | 0.1 | 0.1 | % Dry Weight | |
| Sample ID: 21760-R1 | B13-8365 | Matrix: Sediment | | Sampled: 13-Jul-13 8:37 | | Received: 13-Jul-13 |
| | Method: SM 4500-NH3 D | Batch ID: C-13138 | | Prepared: 06-Sep-13 | | Analyzed: 06-Sep-13 |
| Ammonia as N | NA | 12.47 | 0.02 | 0.03 | mg/dry kg | |
| | Method: Plumb, 1981/TERL | Batch ID: C-13147 | | Prepared: 09-Sep-13 | | Analyzed: 09-Sep-13 |
| Total Sulfides | NA | 3.3 | 0.2 | 0.4 | mg/dry kg | |
| | Method: SM 2540B | Batch ID: E-5121 | | Prepared: 02-Aug-13 | | Analyzed: 02-Aug-13 |
| Percent Solids | NA | 57 | 0.1 | 0.1 | % Dry Weight | |
| Sample ID: 21761-R1 | B13-8318 | Matrix: Sediment | | Sampled: 13-Jul-13 10:57 | | Received: 13-Jul-13 |
| | Method: SM 4500-NH3 D | Batch ID: C-13138 | | Prepared: 06-Sep-13 | | Analyzed: 06-Sep-13 |
| Ammonia as N | NA | 12.59 | 0.02 | 0.03 | mg/dry kg | |
| | Method: Plumb, 1981/TERL | Batch ID: C-13147 | | Prepared: 09-Sep-13 | | Analyzed: 09-Sep-13 |
| Total Sulfides | NA | 3.6 | 0.2 | 0.4 | mg/dry kg | |
| | Method: SM 2540B | Batch ID: E-5121 | | Prepared: 02-Aug-13 | | Analyzed: 02-Aug-13 |
| Percent Solids | NA | 51.7 | 0.1 | 0.1 | % Dry Weight | |
| Sample ID: 21762-R1 | B13-8322 | Matrix: Sediment | | Sampled: 13-Jul-13 10:11 | | Received: 13-Jul-13 |
| | Method: SM 4500-NH3 D | Batch ID: C-13138 | | Prepared: 06-Sep-13 | | Analyzed: 06-Sep-13 |
| Ammonia as N | NA | 11.89 | 0.02 | 0.03 | mg/dry kg | |
| | Method: Plumb, 1981/TERL | Batch ID: C-13147 | | Prepared: 09-Sep-13 | | Analyzed: 09-Sep-13 |
| Total Sulfides | NA | 3.9 | 0.2 | 0.4 | mg/dry kg | |



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|----------------------------|--------------------------|-------------------------|------|--------------------------------|--------------|----------------------------|
| | Method: SM 2540B | Batch ID: E-5121 | | | | Analyzed: 02-Aug-13 |
| Percent Solids | NA | 49.2 | 0.1 | 0.1 | % Dry Weight | |
| Sample ID: 21763-R1 | B13-8333 | Matrix: Sediment | | Sampled: 13-Jul-13 7:43 | | Received: 13-Jul-13 |
| | Method: SM 4500-NH3 D | Batch ID: C-13138 | | Prepared: 06-Sep-13 | | Analyzed: 06-Sep-13 |
| Ammonia as N | NA | 8.67 | 0.02 | 0.03 | mg/dry kg | |
| | Method: Plumb, 1981/TERL | Batch ID: C-13147 | | Prepared: 09-Sep-13 | | Analyzed: 09-Sep-13 |
| Total Sulfides | NA | 6.1 | 0.2 | 0.4 | mg/dry kg | |
| | Method: SM 2540B | Batch ID: E-5121 | | Prepared: 02-Aug-13 | | Analyzed: 02-Aug-13 |
| Percent Solids | NA | 68.7 | 0.1 | 0.1 | % Dry Weight | |
| Sample ID: 21764-R1 | B13-8356 | Matrix: Sediment | | Sampled: 13-Jul-13 9:22 | | Received: 13-Jul-13 |
| | Method: SM 4500-NH3 D | Batch ID: C-13138 | | Prepared: 06-Sep-13 | | Analyzed: 06-Sep-13 |
| Ammonia as N | NA | 18.41 | 0.02 | 0.03 | mg/dry kg | |
| | Method: Plumb, 1981/TERL | Batch ID: C-13147 | | Prepared: 09-Sep-13 | | Analyzed: 09-Sep-13 |
| Total Sulfides | NA | 10.5 | 0.2 | 0.4 | mg/dry kg | |
| | Method: SM 2540B | Batch ID: E-5121 | | Prepared: 02-Aug-13 | | Analyzed: 02-Aug-13 |
| Percent Solids | NA | 55.2 | 0.1 | 0.1 | % Dry Weight | |



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| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|----------------------------|-------------------|-------------------------|---------|---------------------------------|----------|----------------------------|
| Sample ID: 21733-R1 | | Matrix: Sediment | | Sampled: 10-Jul-13 11:04 | | Received: 13-Jul-13 |
| | B13-8382 | Batch ID: E-5124 | | Prepared: 09-Aug-13 | | Analyzed: 16-Aug-13 |
| | Method: EPA 6020 | | | | | |
| Aluminum (Al) | NA | 24214.2 | 1 | 5 | µg/dry g | |
| Antimony (Sb) | NA | 1.115 | 0.025 | 0.05 | µg/dry g | |
| Arsenic (As) | NA | 12.352 | 0.025 | 0.05 | µg/dry g | |
| Barium (Ba) | NA | 169.899 | 0.025 | 0.05 | µg/dry g | |
| Beryllium (Be) | NA | 0.847 | 0.025 | 0.05 | µg/dry g | |
| Cadmium (Cd) | NA | 0.4273 | 0.0025 | 0.005 | µg/dry g | |
| Chromium (Cr) | NA | 56.3947 | 0.0025 | 0.005 | µg/dry g | |
| Copper (Cu) | NA | 74.0468 | 0.0025 | 0.005 | µg/dry g | |
| Iron (Fe) | NA | 33905.8 | 1 | 5 | µg/dry g | |
| Lead (Pb) | NA | 27.7253 | 0.0025 | 0.005 | µg/dry g | |
| Nickel (Ni) | NA | 31.64 | 0.01 | 0.02 | µg/dry g | |
| Selenium (Se) | NA | 0.362 | 0.025 | 0.05 | µg/dry g | |
| Silver (Ag) | NA | 0.26 | 0.01 | 0.02 | µg/dry g | |
| Total Phosphorus | NA | 1592.452 | 0.016 | 0.05 | µg/dry g | |
| Zinc (Zn) | NA | 155.997 | 0.025 | 0.05 | µg/dry g | |
| | Method: EPA 245.7 | Batch ID: E-6013 | | Prepared: 27-Aug-13 | | Analyzed: 27-Aug-13 |
| Mercury (Hg) | NA | 0.462 | 0.00001 | 0.00002 | µg/dry g | |
| Sample ID: 21734-R1 | | Matrix: Sediment | | Sampled: 10-Jul-13 14:28 | | Received: 13-Jul-13 |
| | B13-8374 | Batch ID: E-5124 | | Prepared: 09-Aug-13 | | Analyzed: 16-Aug-13 |
| | Method: EPA 6020 | | | | | |
| Aluminum (Al) | NA | 29727.6 | 1 | 5 | µg/dry g | |
| Antimony (Sb) | NA | 0.985 | 0.025 | 0.05 | µg/dry g | |
| Arsenic (As) | NA | 14.622 | 0.025 | 0.05 | µg/dry g | |
| Barium (Ba) | NA | 189.082 | 0.025 | 0.05 | µg/dry g | |
| Beryllium (Be) | NA | 1.015 | 0.025 | 0.05 | µg/dry g | |
| Cadmium (Cd) | NA | 0.4603 | 0.0025 | 0.005 | µg/dry g | |
| Chromium (Cr) | NA | 62.3257 | 0.0025 | 0.005 | µg/dry g | |
| Copper (Cu) | NA | 62.7272 | 0.0025 | 0.005 | µg/dry g | |
| Iron (Fe) | NA | 38675.1 | 1 | 5 | µg/dry g | |
| Lead (Pb) | NA | 35.824 | 0.0025 | 0.005 | µg/dry g | |



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|----------------------------|-----------------|-------------------------|---------------------------|---------------------|----------------------------|---------------------|
| Nickel (Ni) | NA | 34.98 | 0.01 | 0.02 | µg/dry g | |
| Selenium (Se) | NA | 0.518 | 0.025 | 0.05 | µg/dry g | |
| Silver (Ag) | NA | 0.45 | 0.01 | 0.02 | µg/dry g | |
| Total Phosphorus | NA | 1413.339 | 0.016 | 0.05 | µg/dry g | |
| Zinc (Zn) | NA | 150.874 | 0.025 | 0.05 | µg/dry g | |
| Method: EPA 245.7 | | Batch ID: E-6013 | | Prepared: 27-Aug-13 | | Analyzed: 27-Aug-13 |
| Mercury (Hg) | NA | 0.258 | 0.00001 | 0.00002 | µg/dry g | |
| Sample ID: 21735-R1 | B13-8371 | Matrix: Sediment | Sampled: 10-Jul-13 | 12:03 | Received: 13-Jul-13 | |
| Method: EPA 6020 | | Batch ID: E-5124 | | Prepared: 09-Aug-13 | | Analyzed: 16-Aug-13 |
| Aluminum (Al) | NA | 17560.5 | 1 | 5 | µg/dry g | |
| Antimony (Sb) | NA | 0.889 | 0.025 | 0.05 | µg/dry g | |
| Arsenic (As) | NA | 8.542 | 0.025 | 0.05 | µg/dry g | |
| Barium (Ba) | NA | 117.045 | 0.025 | 0.05 | µg/dry g | |
| Beryllium (Be) | NA | 0.572 | 0.025 | 0.05 | µg/dry g | |
| Cadmium (Cd) | NA | 0.2053 | 0.0025 | 0.005 | µg/dry g | |
| Chromium (Cr) | NA | 35.9925 | 0.0025 | 0.005 | µg/dry g | |
| Copper (Cu) | NA | 40.4138 | 0.0025 | 0.005 | µg/dry g | |
| Iron (Fe) | NA | 25518.9 | 1 | 5 | µg/dry g | |
| Lead (Pb) | NA | 15.5131 | 0.0025 | 0.005 | µg/dry g | |
| Nickel (Ni) | NA | 20.84 | 0.01 | 0.02 | µg/dry g | |
| Selenium (Se) | NA | 0.178 | 0.025 | 0.05 | µg/dry g | |
| Silver (Ag) | NA | 0.13 | 0.01 | 0.02 | µg/dry g | |
| Total Phosphorus | NA | 1327.443 | 0.016 | 0.05 | µg/dry g | |
| Zinc (Zn) | NA | 94.579 | 0.025 | 0.05 | µg/dry g | |
| Method: EPA 245.7 | | Batch ID: E-6013 | | Prepared: 27-Aug-13 | | Analyzed: 27-Aug-13 |
| Mercury (Hg) | NA | 0.182 | 0.00001 | 0.00002 | µg/dry g | |
| Sample ID: 21736-R1 | B13-8363 | Matrix: Sediment | Sampled: 10-Jul-13 | 13:38 | Received: 13-Jul-13 | |
| Method: EPA 6020 | | Batch ID: E-5124 | | Prepared: 09-Aug-13 | | Analyzed: 16-Aug-13 |
| Aluminum (Al) | NA | 23554.7 | 1 | 5 | µg/dry g | |
| Antimony (Sb) | NA | 0.768 | 0.025 | 0.05 | µg/dry g | |
| Arsenic (As) | NA | 11.859 | 0.025 | 0.05 | µg/dry g | |



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|------------------|----------|----------|--------|-------|----------|---------|
| Barium (Ba) | NA | 161.643 | 0.025 | 0.05 | µg/dry g | |
| Beryllium (Be) | NA | 0.799 | 0.025 | 0.05 | µg/dry g | |
| Cadmium (Cd) | NA | 0.2737 | 0.0025 | 0.005 | µg/dry g | |
| Chromium (Cr) | NA | 50.3089 | 0.0025 | 0.005 | µg/dry g | |
| Copper (Cu) | NA | 55.4303 | 0.0025 | 0.005 | µg/dry g | |
| Iron (Fe) | NA | 33366.2 | 1 | 5 | µg/dry g | |
| Lead (Pb) | NA | 23.6258 | 0.0025 | 0.005 | µg/dry g | |
| Nickel (Ni) | NA | 28.95 | 0.01 | 0.02 | µg/dry g | |
| Selenium (Se) | NA | 0.323 | 0.025 | 0.05 | µg/dry g | |
| Silver (Ag) | NA | 0.22 | 0.01 | 0.02 | µg/dry g | |
| Total Phosphorus | NA | 1481.449 | 0.016 | 0.05 | µg/dry g | |
| Zinc (Zn) | NA | 127.363 | 0.025 | 0.05 | µg/dry g | |

Method: EPA 245.7

Batch ID: E-6013

Prepared: 27-Aug-13

Analyzed: 27-Aug-13

| | | | | | | |
|--------------|----|-------|---------|---------|----------|--|
| Mercury (Hg) | NA | 0.242 | 0.00001 | 0.00002 | µg/dry g | |
|--------------|----|-------|---------|---------|----------|--|

Sample ID: 21737-R1

B13-8360

Matrix: Sediment

Sampled: 10-Jul-13

15:30

Received: 13-Jul-13

Method: EPA 6020

Batch ID: E-5124

Prepared: 09-Aug-13

Analyzed: 16-Aug-13

| | | | | | | |
|------------------|----|----------|--------|-------|----------|--|
| Aluminum (Al) | NA | 16210.3 | 1 | 5 | µg/dry g | |
| Antimony (Sb) | NA | 0.496 | 0.025 | 0.05 | µg/dry g | |
| Arsenic (As) | NA | 7.388 | 0.025 | 0.05 | µg/dry g | |
| Barium (Ba) | NA | 118.567 | 0.025 | 0.05 | µg/dry g | |
| Beryllium (Be) | NA | 0.537 | 0.025 | 0.05 | µg/dry g | |
| Cadmium (Cd) | NA | 0.1897 | 0.0025 | 0.005 | µg/dry g | |
| Chromium (Cr) | NA | 34.1239 | 0.0025 | 0.005 | µg/dry g | |
| Copper (Cu) | NA | 28.9895 | 0.0025 | 0.005 | µg/dry g | |
| Iron (Fe) | NA | 23082.2 | 1 | 5 | µg/dry g | |
| Lead (Pb) | NA | 15.2715 | 0.0025 | 0.005 | µg/dry g | |
| Nickel (Ni) | NA | 19.22 | 0.01 | 0.02 | µg/dry g | |
| Selenium (Se) | NA | 0.222 | 0.025 | 0.05 | µg/dry g | |
| Silver (Ag) | NA | 0.13 | 0.01 | 0.02 | µg/dry g | |
| Total Phosphorus | NA | 1011.656 | 0.016 | 0.05 | µg/dry g | |
| Zinc (Zn) | NA | 79.427 | 0.025 | 0.05 | µg/dry g | |

Method: EPA 245.7

Batch ID: E-6013

Prepared: 27-Aug-13

Analyzed: 27-Aug-13



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|----------------------------|----------|-------------------|-------------------------|---------------------------|-------------|----------------------------|
| Mercury (Hg) | NA | 0.157 | 0.00001 | 0.00002 | µg/dry g | |
| Sample ID: 21738-R1 | | B13-8349 | Matrix: Sediment | Sampled: 10-Jul-13 | 9:51 | Received: 13-Jul-13 |
| | | Method: EPA 6020 | Batch ID: E-5124 | Prepared: 09-Aug-13 | | Analyzed: 16-Aug-13 |
| Aluminum (Al) | NA | 32456.3 | 1 | 5 | µg/dry g | |
| Antimony (Sb) | NA | 0.85 | 0.025 | 0.05 | µg/dry g | |
| Arsenic (As) | NA | 14.979 | 0.025 | 0.05 | µg/dry g | |
| Barium (Ba) | NA | 209.138 | 0.025 | 0.05 | µg/dry g | |
| Beryllium (Be) | NA | 1.061 | 0.025 | 0.05 | µg/dry g | |
| Cadmium (Cd) | NA | 0.5726 | 0.0025 | 0.005 | µg/dry g | |
| Chromium (Cr) | NA | 78.8586 | 0.0025 | 0.005 | µg/dry g | |
| Copper (Cu) | NA | 96.6367 | 0.0025 | 0.005 | µg/dry g | |
| Iron (Fe) | NA | 40542.4 | 1 | 5 | µg/dry g | |
| Lead (Pb) | NA | 36.3562 | 0.0025 | 0.005 | µg/dry g | |
| Nickel (Ni) | NA | 39.86 | 0.01 | 0.02 | µg/dry g | |
| Selenium (Se) | NA | 0.993 | 0.025 | 0.05 | µg/dry g | |
| Silver (Ag) | NA | 0.38 | 0.01 | 0.02 | µg/dry g | |
| Total Phosphorus | NA | 1527.983 | 0.016 | 0.05 | µg/dry g | |
| Zinc (Zn) | NA | 172.337 | 0.025 | 0.05 | µg/dry g | |
| | | Method: EPA 245.7 | Batch ID: E-6013 | Prepared: 27-Aug-13 | | Analyzed: 27-Aug-13 |
| Mercury (Hg) | NA | 0.414 | 0.00001 | 0.00002 | µg/dry g | |
| Sample ID: 21739-R1 | | B13-8326 | Matrix: Sediment | Sampled: 10-Jul-13 | 8:28 | Received: 13-Jul-13 |
| | | Method: EPA 6020 | Batch ID: E-5124 | Prepared: 09-Aug-13 | | Analyzed: 16-Aug-13 |
| Aluminum (Al) | NA | 18569.2 | 1 | 5 | µg/dry g | |
| Antimony (Sb) | NA | 0.55 | 0.025 | 0.05 | µg/dry g | |
| Arsenic (As) | NA | 9.204 | 0.025 | 0.05 | µg/dry g | |
| Barium (Ba) | NA | 157.487 | 0.025 | 0.05 | µg/dry g | |
| Beryllium (Be) | NA | 0.622 | 0.025 | 0.05 | µg/dry g | |
| Cadmium (Cd) | NA | 0.3038 | 0.0025 | 0.005 | µg/dry g | |
| Chromium (Cr) | NA | 42.7947 | 0.0025 | 0.005 | µg/dry g | |
| Copper (Cu) | NA | 34.9184 | 0.0025 | 0.005 | µg/dry g | |
| Iron (Fe) | NA | 26065.7 | 1 | 5 | µg/dry g | |



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|----------------------------|------------------|-------------------------|---------------------------|---------------------|----------------------------|---------------------|
| Lead (Pb) | NA | 16.0473 | 0.0025 | 0.005 | µg/dry g | |
| Nickel (Ni) | NA | 23.53 | 0.01 | 0.02 | µg/dry g | |
| Selenium (Se) | NA | 0.356 | 0.025 | 0.05 | µg/dry g | |
| Silver (Ag) | NA | 0.17 | 0.01 | 0.02 | µg/dry g | |
| Total Phosphorus | NA | 1553.599 | 0.016 | 0.05 | µg/dry g | |
| Zinc (Zn) | NA | 100.776 | 0.025 | 0.05 | µg/dry g | |
| Method: EPA 245.7 | | Batch ID: E-6013 | | Prepared: 27-Aug-13 | | Analyzed: 27-Aug-13 |
| Mercury (Hg) | NA | 0.157 | 0.00001 | 0.00002 | µg/dry g | |
| Sample ID: 21740-R1 | B13-8367 | Matrix: Sediment | Sampled: 11-Jul-13 | 14:10 | Received: 13-Jul-13 | |
| | Method: EPA 6020 | Batch ID: E-5124 | Prepared: 09-Aug-13 | | Analyzed: 16-Aug-13 | |
| Aluminum (Al) | NA | 9875.5 | 1 | 5 | µg/dry g | |
| Antimony (Sb) | NA | 0.245 | 0.025 | 0.05 | µg/dry g | |
| Arsenic (As) | NA | 5.07 | 0.025 | 0.05 | µg/dry g | |
| Barium (Ba) | NA | 88.035 | 0.025 | 0.05 | µg/dry g | |
| Beryllium (Be) | NA | 0.33 | 0.025 | 0.05 | µg/dry g | |
| Cadmium (Cd) | NA | 0.0933 | 0.0025 | 0.005 | µg/dry g | |
| Chromium (Cr) | NA | 20.9726 | 0.0025 | 0.005 | µg/dry g | |
| Copper (Cu) | NA | 12.411 | 0.0025 | 0.005 | µg/dry g | |
| Iron (Fe) | NA | 16087.4 | 1 | 5 | µg/dry g | |
| Lead (Pb) | NA | 4.6314 | 0.0025 | 0.005 | µg/dry g | |
| Nickel (Ni) | NA | 13.15 | 0.01 | 0.02 | µg/dry g | |
| Selenium (Se) | NA | 0.095 | 0.025 | 0.05 | µg/dry g | |
| Silver (Ag) | NA | 0.04 | 0.01 | 0.02 | µg/dry g | |
| Total Phosphorus | NA | 886.716 | 0.016 | 0.05 | µg/dry g | |
| Zinc (Zn) | NA | 53.811 | 0.025 | 0.05 | µg/dry g | |
| Method: EPA 245.7 | | Batch ID: E-6013 | | Prepared: 27-Aug-13 | | Analyzed: 27-Aug-13 |
| Mercury (Hg) | NA | 0.034 | 0.00001 | 0.00002 | µg/dry g | |
| Sample ID: 21741-R1 | B13-8302 | Matrix: Sediment | Sampled: 11-Jul-13 | 9:29 | Received: 13-Jul-13 | |
| | Method: EPA 6020 | Batch ID: E-5124 | Prepared: 09-Aug-13 | | Analyzed: 16-Aug-13 | |
| Aluminum (Al) | NA | 27981.5 | 1 | 5 | µg/dry g | |
| Antimony (Sb) | NA | 0.792 | 0.025 | 0.05 | µg/dry g | |



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| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|------------------|----------|----------|--------|-------|----------|---------|
| Arsenic (As) | NA | 14.266 | 0.025 | 0.05 | µg/dry g | |
| Barium (Ba) | NA | 309.926 | 0.025 | 0.05 | µg/dry g | |
| Beryllium (Be) | NA | 0.893 | 0.025 | 0.05 | µg/dry g | |
| Cadmium (Cd) | NA | 0.855 | 0.0025 | 0.005 | µg/dry g | |
| Chromium (Cr) | NA | 79.7206 | 0.0025 | 0.005 | µg/dry g | |
| Copper (Cu) | NA | 62.2823 | 0.0025 | 0.005 | µg/dry g | |
| Iron (Fe) | NA | 36213.1 | 1 | 5 | µg/dry g | |
| Lead (Pb) | NA | 22.4146 | 0.0025 | 0.005 | µg/dry g | |
| Nickel (Ni) | NA | 40.22 | 0.01 | 0.02 | µg/dry g | |
| Selenium (Se) | NA | 1.545 | 0.025 | 0.05 | µg/dry g | |
| Silver (Ag) | NA | 0.37 | 0.01 | 0.02 | µg/dry g | |
| Total Phosphorus | NA | 1558.588 | 0.016 | 0.05 | µg/dry g | |
| Zinc (Zn) | NA | 142.353 | 0.025 | 0.05 | µg/dry g | |

Method: EPA 245.7

Batch ID: E-6013

Prepared: 27-Aug-13

Analyzed: 27-Aug-13

| | | | | | | |
|--------------|----|-------|---------|---------|----------|--|
| Mercury (Hg) | NA | 0.227 | 0.00001 | 0.00002 | µg/dry g | |
|--------------|----|-------|---------|---------|----------|--|

Sample ID: 21742-R1

B13-8304

Matrix: Sediment

Sampled: 11-Jul-13

16:24

Received: 13-Jul-13

Method: EPA 6020

Batch ID: E-5124

Prepared: 09-Aug-13

Analyzed: 16-Aug-13

| | | | | | | |
|------------------|----|----------|--------|-------|----------|--|
| Aluminum (Al) | NA | 25962.5 | 1 | 5 | µg/dry g | |
| Antimony (Sb) | NA | 0.73 | 0.025 | 0.05 | µg/dry g | |
| Arsenic (As) | NA | 13.101 | 0.025 | 0.05 | µg/dry g | |
| Barium (Ba) | NA | 276.559 | 0.025 | 0.05 | µg/dry g | |
| Beryllium (Be) | NA | 0.81 | 0.025 | 0.05 | µg/dry g | |
| Cadmium (Cd) | NA | 0.7311 | 0.0025 | 0.005 | µg/dry g | |
| Chromium (Cr) | NA | 69.9317 | 0.0025 | 0.005 | µg/dry g | |
| Copper (Cu) | NA | 49.3627 | 0.0025 | 0.005 | µg/dry g | |
| Iron (Fe) | NA | 32704.3 | 1 | 5 | µg/dry g | |
| Lead (Pb) | NA | 19.4068 | 0.0025 | 0.005 | µg/dry g | |
| Nickel (Ni) | NA | 35.74 | 0.01 | 0.02 | µg/dry g | |
| Selenium (Se) | NA | 1.354 | 0.025 | 0.05 | µg/dry g | |
| Silver (Ag) | NA | 0.31 | 0.01 | 0.02 | µg/dry g | |
| Total Phosphorus | NA | 1514.843 | 0.016 | 0.05 | µg/dry g | |
| Zinc (Zn) | NA | 124.608 | 0.025 | 0.05 | µg/dry g | |



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| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|----------------------------|-----------------|-------------------------|---------------------------|---------------------|----------------------------|---------------------|
| Method: EPA 245.7 | | Batch ID: E-6013 | | Prepared: 27-Aug-13 | | Analyzed: 27-Aug-13 |
| Mercury (Hg) | NA | 0.181 | 0.00001 | 0.00002 | µg/dry g | |
| Sample ID: 21743-R1 | B13-8306 | Matrix: Sediment | Sampled: 11-Jul-13 | 13:00 | Received: 13-Jul-13 | |
| Method: EPA 6020 | | Batch ID: E-5125 | | Prepared: 09-Aug-13 | | Analyzed: 17-Aug-13 |
| Aluminum (Al) | NA | 18447.2 | 1 | 5 | µg/dry g | |
| Antimony (Sb) | NA | 0.524 | 0.025 | 0.05 | µg/dry g | |
| Arsenic (As) | NA | 14.085 | 0.025 | 0.05 | µg/dry g | |
| Barium (Ba) | NA | 579.043 | 0.025 | 0.05 | µg/dry g | |
| Beryllium (Be) | NA | 0.608 | 0.025 | 0.05 | µg/dry g | |
| Cadmium (Cd) | NA | 1.1438 | 0.0025 | 0.005 | µg/dry g | |
| Chromium (Cr) | NA | 59.9136 | 0.0025 | 0.005 | µg/dry g | |
| Copper (Cu) | NA | 80.3998 | 0.0025 | 0.005 | µg/dry g | |
| Iron (Fe) | NA | 25431.1 | 1 | 5 | µg/dry g | |
| Lead (Pb) | NA | 22.3743 | 0.0025 | 0.005 | µg/dry g | |
| Nickel (Ni) | NA | 28.92 | 0.01 | 0.02 | µg/dry g | |
| Selenium (Se) | NA | 1.513 | 0.025 | 0.05 | µg/dry g | |
| Silver (Ag) | NA | 0.36 | 0.01 | 0.02 | µg/dry g | |
| Total Phosphorus | NA | 1811.78 | 0.016 | 0.05 | µg/dry g | |
| Zinc (Zn) | NA | 194.228 | 0.025 | 0.05 | µg/dry g | |
| Method: EPA 245.7 | | Batch ID: E-6013 | | Prepared: 27-Aug-13 | | Analyzed: 27-Aug-13 |
| Mercury (Hg) | NA | 0.324 | 0.00001 | 0.00002 | µg/dry g | |
| Sample ID: 21744-R1 | B13-8308 | Matrix: Sediment | Sampled: 11-Jul-13 | 17:06 | Received: 13-Jul-13 | |
| Method: EPA 6020 | | Batch ID: E-5125 | | Prepared: 09-Aug-13 | | Analyzed: 17-Aug-13 |
| Aluminum (Al) | NA | 26131.5 | 1 | 5 | µg/dry g | |
| Antimony (Sb) | NA | 0.715 | 0.025 | 0.05 | µg/dry g | |
| Arsenic (As) | NA | 13.112 | 0.025 | 0.05 | µg/dry g | |
| Barium (Ba) | NA | 262.635 | 0.025 | 0.05 | µg/dry g | |
| Beryllium (Be) | NA | 0.802 | 0.025 | 0.05 | µg/dry g | |
| Cadmium (Cd) | NA | 0.7291 | 0.0025 | 0.005 | µg/dry g | |
| Chromium (Cr) | NA | 67.2113 | 0.0025 | 0.005 | µg/dry g | |
| Copper (Cu) | NA | 50.5427 | 0.0025 | 0.005 | µg/dry g | |



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| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|------------------|----------|----------|--------|-------|----------|---------|
| Iron (Fe) | NA | 33445 | 1 | 5 | µg/dry g | |
| Lead (Pb) | NA | 18.1888 | 0.0025 | 0.005 | µg/dry g | |
| Nickel (Ni) | NA | 35.92 | 0.01 | 0.02 | µg/dry g | |
| Selenium (Se) | NA | 1.451 | 0.025 | 0.05 | µg/dry g | |
| Silver (Ag) | NA | 0.3 | 0.01 | 0.02 | µg/dry g | |
| Total Phosphorus | NA | 1434.749 | 0.016 | 0.05 | µg/dry g | |
| Zinc (Zn) | NA | 123.695 | 0.025 | 0.05 | µg/dry g | |

Method: EPA 245.7

Batch ID: E-6013

Prepared: 27-Aug-13

Analyzed: 27-Aug-13

| | | | | | | |
|--------------|----|-------|---------|---------|----------|--|
| Mercury (Hg) | NA | 0.167 | 0.00001 | 0.00002 | µg/dry g | |
|--------------|----|-------|---------|---------|----------|--|

Sample ID: 21745-R1

B13-8310

Matrix: Sediment

Sampled: 11-Jul-13

17:51

Received: 13-Jul-13

Method: EPA 6020

Batch ID: E-5125

Prepared: 09-Aug-13

Analyzed: 17-Aug-13

| | | | | | | |
|------------------|----|----------|--------|-------|----------|--|
| Aluminum (Al) | NA | 20495.4 | 1 | 5 | µg/dry g | |
| Antimony (Sb) | NA | 0.644 | 0.025 | 0.05 | µg/dry g | |
| Arsenic (As) | NA | 11.196 | 0.025 | 0.05 | µg/dry g | |
| Barium (Ba) | NA | 240.84 | 0.025 | 0.05 | µg/dry g | |
| Beryllium (Be) | NA | 0.688 | 0.025 | 0.05 | µg/dry g | |
| Cadmium (Cd) | NA | 0.5996 | 0.0025 | 0.005 | µg/dry g | |
| Chromium (Cr) | NA | 57.6502 | 0.0025 | 0.005 | µg/dry g | |
| Copper (Cu) | NA | 44.6095 | 0.0025 | 0.005 | µg/dry g | |
| Iron (Fe) | NA | 27136.5 | 1 | 5 | µg/dry g | |
| Lead (Pb) | NA | 20.3211 | 0.0025 | 0.005 | µg/dry g | |
| Nickel (Ni) | NA | 29.53 | 0.01 | 0.02 | µg/dry g | |
| Selenium (Se) | NA | 1.11 | 0.025 | 0.05 | µg/dry g | |
| Silver (Ag) | NA | 0.3 | 0.01 | 0.02 | µg/dry g | |
| Total Phosphorus | NA | 1433.254 | 0.016 | 0.05 | µg/dry g | |
| Zinc (Zn) | NA | 114.566 | 0.025 | 0.05 | µg/dry g | |

Method: EPA 245.7

Batch ID: E-6013

Prepared: 27-Aug-13

Analyzed: 27-Aug-13

| | | | | | | |
|--------------|----|-------|---------|---------|----------|--|
| Mercury (Hg) | NA | 0.196 | 0.00001 | 0.00002 | µg/dry g | |
|--------------|----|-------|---------|---------|----------|--|

Sample ID: 21746-R1

B13-8316

Matrix: Sediment

Sampled: 11-Jul-13

10:23

Received: 13-Jul-13

Method: EPA 6020

Batch ID: E-5125

Prepared: 09-Aug-13

Analyzed: 17-Aug-13

| | | | | | | |
|---------------|----|---------|---|---|----------|--|
| Aluminum (Al) | NA | 29263.9 | 1 | 5 | µg/dry g | |
|---------------|----|---------|---|---|----------|--|



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| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|------------------|----------|----------|--------|-------|----------|---------|
| Antimony (Sb) | NA | 0.801 | 0.025 | 0.05 | µg/dry g | |
| Arsenic (As) | NA | 16.134 | 0.025 | 0.05 | µg/dry g | |
| Barium (Ba) | NA | 276.268 | 0.025 | 0.05 | µg/dry g | |
| Beryllium (Be) | NA | 0.86 | 0.025 | 0.05 | µg/dry g | |
| Cadmium (Cd) | NA | 0.5916 | 0.0025 | 0.005 | µg/dry g | |
| Chromium (Cr) | NA | 76.5559 | 0.0025 | 0.005 | µg/dry g | |
| Copper (Cu) | NA | 65.1326 | 0.0025 | 0.005 | µg/dry g | |
| Iron (Fe) | NA | 38333 | 1 | 5 | µg/dry g | |
| Lead (Pb) | NA | 22.0339 | 0.0025 | 0.005 | µg/dry g | |
| Nickel (Ni) | NA | 40.01 | 0.01 | 0.02 | µg/dry g | |
| Selenium (Se) | NA | 1.474 | 0.025 | 0.05 | µg/dry g | |
| Silver (Ag) | NA | 0.33 | 0.01 | 0.02 | µg/dry g | |
| Total Phosphorus | NA | 1439.185 | 0.016 | 0.05 | µg/dry g | |
| Zinc (Zn) | NA | 141.947 | 0.025 | 0.05 | µg/dry g | |

Method: EPA 245.7

Batch ID: E-6013

Prepared: 27-Aug-13

Analyzed: 27-Aug-13

| | | | | | | |
|--------------|----|-------|---------|---------|----------|--|
| Mercury (Hg) | NA | 0.219 | 0.00001 | 0.00002 | µg/dry g | |
|--------------|----|-------|---------|---------|----------|--|

Sample ID: 21747-R1

TMDL2-FH

Matrix: Sediment

Sampled: 11-Jul-13

15:25

Received: 13-Jul-13

Method: EPA 6020

Batch ID: E-5125

Prepared: 09-Aug-13

Analyzed: 17-Aug-13

| | | | | | | |
|----------------|----|----------|--------|-------|----------|--|
| Aluminum (Al) | NA | 40047.5 | 1 | 5 | µg/dry g | |
| Antimony (Sb) | NA | 1.983 | 0.025 | 0.05 | µg/dry g | |
| Arsenic (As) | NA | 22.644 | 0.025 | 0.05 | µg/dry g | |
| Barium (Ba) | NA | 254.028 | 0.025 | 0.05 | µg/dry g | |
| Beryllium (Be) | NA | 1.226 | 0.025 | 0.05 | µg/dry g | |
| Cadmium (Cd) | NA | 1.2724 | 0.0025 | 0.005 | µg/dry g | |
| Chromium (Cr) | NA | 124.7339 | 0.0025 | 0.005 | µg/dry g | |
| Copper (Cu) | NA | 725.847 | 0.0025 | 0.005 | µg/dry g | |
| Iron (Fe) | NA | 46869.1 | 1 | 5 | µg/dry g | |
| Lead (Pb) | NA | 129.3635 | 0.0025 | 0.005 | µg/dry g | |
| Nickel (Ni) | NA | 47.02 | 0.01 | 0.02 | µg/dry g | |
| Selenium (Se) | NA | 1.638 | 0.025 | 0.05 | µg/dry g | |
| Silver (Ag) | NA | 0.73 | 0.01 | 0.02 | µg/dry g | |
| Zinc (Zn) | NA | 627.912 | 0.025 | 0.05 | µg/dry g | |



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| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|----------------------------|-----------------|-------------------------|---------------------------|---------------------|----------------------------|---------------------|
| Method: EPA 245.7 | | Batch ID: E-6013 | | Prepared: 27-Aug-13 | | Analyzed: 27-Aug-13 |
| Mercury (Hg) | NA | 2.434 | 0.00001 | 0.00002 | µg/dry g | |
| Sample ID: 21748-R1 | TMDL1-CH | Matrix: Sediment | Sampled: 11-Jul-13 | 12:07 | Received: 13-Jul-13 | |
| Method: EPA 6020 | | Batch ID: E-5125 | | Prepared: 09-Aug-13 | | Analyzed: 17-Aug-13 |
| Aluminum (Al) | NA | 36386.1 | 1 | 5 | µg/dry g | |
| Antimony (Sb) | NA | 1.468 | 0.025 | 0.05 | µg/dry g | |
| Arsenic (As) | NA | 21.921 | 0.025 | 0.05 | µg/dry g | |
| Barium (Ba) | NA | 420.659 | 0.025 | 0.05 | µg/dry g | |
| Beryllium (Be) | NA | 0.998 | 0.025 | 0.05 | µg/dry g | |
| Cadmium (Cd) | NA | 1.44 | 0.0025 | 0.005 | µg/dry g | |
| Chromium (Cr) | NA | 110.8384 | 0.0025 | 0.005 | µg/dry g | |
| Copper (Cu) | NA | 169.4832 | 0.0025 | 0.005 | µg/dry g | |
| Iron (Fe) | NA | 39900.7 | 1 | 5 | µg/dry g | |
| Lead (Pb) | NA | 50.4456 | 0.0025 | 0.005 | µg/dry g | |
| Nickel (Ni) | NA | 57.45 | 0.01 | 0.02 | µg/dry g | |
| Selenium (Se) | NA | 4.3 | 0.025 | 0.05 | µg/dry g | |
| Silver (Ag) | NA | 0.68 | 0.01 | 0.02 | µg/dry g | |
| Zinc (Zn) | NA | 243.657 | 0.025 | 0.05 | µg/dry g | |
| Method: EPA 245.7 | | Batch ID: E-6013 | | Prepared: 27-Aug-13 | | Analyzed: 27-Aug-13 |
| Mercury (Hg) | NA | 0.613 | 0.00001 | 0.00002 | µg/dry g | |
| Sample ID: 21749-R1 | TMDL5-DT | Matrix: Sediment | Sampled: 11-Jul-13 | 15:25 | Received: 13-Jul-13 | |
| Method: EPA 6020 | | Batch ID: E-5125 | | Prepared: 09-Aug-13 | | Analyzed: 17-Aug-13 |
| Aluminum (Al) | NA | 41404 | 1 | 5 | µg/dry g | |
| Antimony (Sb) | NA | 1.913 | 0.025 | 0.05 | µg/dry g | |
| Arsenic (As) | NA | 22.327 | 0.025 | 0.05 | µg/dry g | |
| Barium (Ba) | NA | 252.391 | 0.025 | 0.05 | µg/dry g | |
| Beryllium (Be) | NA | 1.193 | 0.025 | 0.05 | µg/dry g | |
| Cadmium (Cd) | NA | 1.1552 | 0.0025 | 0.005 | µg/dry g | |
| Chromium (Cr) | NA | 121.5435 | 0.0025 | 0.005 | µg/dry g | |
| Copper (Cu) | NA | 707.7034 | 0.0025 | 0.005 | µg/dry g | |
| Iron (Fe) | NA | 49306.4 | 1 | 5 | µg/dry g | |



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|-------------------|----------|------------------|---------|---------------------|----------|---------------------|
| Lead (Pb) | NA | 124.9361 | 0.0025 | 0.005 | µg/dry g | |
| Nickel (Ni) | NA | 46.54 | 0.01 | 0.02 | µg/dry g | |
| Selenium (Se) | NA | 1.722 | 0.025 | 0.05 | µg/dry g | |
| Silver (Ag) | NA | 0.74 | 0.01 | 0.02 | µg/dry g | |
| Zinc (Zn) | NA | 549.736 | 0.025 | 0.05 | µg/dry g | |
| Method: EPA 245.7 | | Batch ID: E-6013 | | Prepared: 27-Aug-13 | | Analyzed: 27-Aug-13 |
| Mercury (Hg) | NA | 2.75 | 0.00001 | 0.00002 | µg/dry g | |

Sample ID: 21750-R1

B13-8401

Matrix: Sediment

Sampled: 12-Jul-13

14:42

Received: 13-Jul-13

Method: EPA 6020

Batch ID: E-5125

Prepared: 09-Aug-13

Analyzed: 17-Aug-13

| | | | | | | |
|-------------------|----|------------------|---------|---------------------|----------|---------------------|
| Aluminum (Al) | NA | 34188.6 | 1 | 5 | µg/dry g | |
| Antimony (Sb) | NA | 1.292 | 0.025 | 0.05 | µg/dry g | |
| Arsenic (As) | NA | 22.521 | 0.025 | 0.05 | µg/dry g | |
| Barium (Ba) | NA | 503.271 | 0.025 | 0.05 | µg/dry g | |
| Beryllium (Be) | NA | 1.021 | 0.025 | 0.05 | µg/dry g | |
| Cadmium (Cd) | NA | 0.5698 | 0.0025 | 0.005 | µg/dry g | |
| Chromium (Cr) | NA | 86.831 | 0.0025 | 0.005 | µg/dry g | |
| Copper (Cu) | NA | 207.8391 | 0.0025 | 0.005 | µg/dry g | |
| Iron (Fe) | NA | 45980.4 | 1 | 5 | µg/dry g | |
| Lead (Pb) | NA | 82.6262 | 0.0025 | 0.005 | µg/dry g | |
| Nickel (Ni) | NA | 41.53 | 0.01 | 0.02 | µg/dry g | |
| Selenium (Se) | NA | 0.827 | 0.025 | 0.05 | µg/dry g | |
| Silver (Ag) | NA | 0.5 | 0.01 | 0.02 | µg/dry g | |
| Total Phosphorus | NA | 1446.025 | 0.016 | 0.05 | µg/dry g | |
| Zinc (Zn) | NA | 377.09 | 0.025 | 0.05 | µg/dry g | |
| Method: EPA 245.7 | | Batch ID: E-6013 | | Prepared: 27-Aug-13 | | Analyzed: 27-Aug-13 |
| Mercury (Hg) | NA | 0.923 | 0.00001 | 0.00002 | µg/dry g | |

Sample ID: 21751-R1

B13-8399

Matrix: Sediment

Sampled: 12-Jul-13

13:55

Received: 13-Jul-13

Method: EPA 6020

Batch ID: E-5125

Prepared: 09-Aug-13

Analyzed: 17-Aug-13

| | | | | | | |
|---------------|----|---------|-------|------|----------|--|
| Aluminum (Al) | NA | 28660.6 | 1 | 5 | µg/dry g | |
| Antimony (Sb) | NA | 1.682 | 0.025 | 0.05 | µg/dry g | |
| Arsenic (As) | NA | 24.757 | 0.025 | 0.05 | µg/dry g | |



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|------------------|----------|----------|--------|-------|----------|---------|
| Barium (Ba) | NA | 434.836 | 0.025 | 0.05 | µg/dry g | |
| Beryllium (Be) | NA | 0.873 | 0.025 | 0.05 | µg/dry g | |
| Cadmium (Cd) | NA | 3.0755 | 0.0025 | 0.005 | µg/dry g | |
| Chromium (Cr) | NA | 78.5955 | 0.0025 | 0.005 | µg/dry g | |
| Copper (Cu) | NA | 144.0878 | 0.0025 | 0.005 | µg/dry g | |
| Iron (Fe) | NA | 36447.8 | 1 | 5 | µg/dry g | |
| Lead (Pb) | NA | 110.712 | 0.0025 | 0.005 | µg/dry g | |
| Nickel (Ni) | NA | 38.61 | 0.01 | 0.02 | µg/dry g | |
| Selenium (Se) | NA | 0.765 | 0.025 | 0.05 | µg/dry g | |
| Silver (Ag) | NA | 3.37 | 0.01 | 0.02 | µg/dry g | |
| Total Phosphorus | NA | 1520.818 | 0.016 | 0.05 | µg/dry g | |
| Zinc (Zn) | NA | 401.264 | 0.025 | 0.05 | µg/dry g | |

Method: EPA 245.7

Batch ID: E-6013

Prepared: 27-Aug-13

Analyzed: 27-Aug-13

| | | | | | | |
|--------------|----|-------|---------|---------|----------|--|
| Mercury (Hg) | NA | 7.191 | 0.00001 | 0.00002 | µg/dry g | |
|--------------|----|-------|---------|---------|----------|--|

Sample ID: 21752-R1

B13-8384

Matrix: Sediment

Sampled: 12-Jul-13 9:13

Received: 13-Jul-13

Method: EPA 6020

Batch ID: E-5125

Prepared: 09-Aug-13

Analyzed: 17-Aug-13

| | | | | | | |
|------------------|----|---------|--------|-------|----------|--|
| Aluminum (Al) | NA | 25680.2 | 1 | 5 | µg/dry g | |
| Antimony (Sb) | NA | 0.952 | 0.025 | 0.05 | µg/dry g | |
| Arsenic (As) | NA | 17.798 | 0.025 | 0.05 | µg/dry g | |
| Barium (Ba) | NA | 213.717 | 0.025 | 0.05 | µg/dry g | |
| Beryllium (Be) | NA | 0.825 | 0.025 | 0.05 | µg/dry g | |
| Cadmium (Cd) | NA | 0.4137 | 0.0025 | 0.005 | µg/dry g | |
| Chromium (Cr) | NA | 71.947 | 0.0025 | 0.005 | µg/dry g | |
| Copper (Cu) | NA | 92.5509 | 0.0025 | 0.005 | µg/dry g | |
| Iron (Fe) | NA | 36753.1 | 1 | 5 | µg/dry g | |
| Lead (Pb) | NA | 33.8248 | 0.0025 | 0.005 | µg/dry g | |
| Nickel (Ni) | NA | 40.56 | 0.01 | 0.02 | µg/dry g | |
| Selenium (Se) | NA | 0.774 | 0.025 | 0.05 | µg/dry g | |
| Silver (Ag) | NA | 0.25 | 0.01 | 0.02 | µg/dry g | |
| Total Phosphorus | NA | 1329.44 | 0.016 | 0.05 | µg/dry g | |
| Zinc (Zn) | NA | 168.002 | 0.025 | 0.05 | µg/dry g | |

Method: EPA 245.7

Batch ID: E-6013

Prepared: 27-Aug-13

Analyzed: 27-Aug-13



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ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|--------------|----------|--------|---------|---------|----------|---------|
| Mercury (Hg) | NA | 0.403 | 0.00001 | 0.00002 | µg/dry g | |

Sample ID: 21753-R1

B13-8397

Method: EPA 6020

Matrix: Sediment

Batch ID: E-5126

Sampled: 12-Jul-13

11:20

Received: 13-Jul-13

Prepared: 09-Aug-13

Analyzed: 17-Aug-13

| | | | | | | |
|------------------|----|----------|--------|-------|----------|--|
| Aluminum (Al) | NA | 39513.4 | 1 | 5 | µg/dry g | |
| Antimony (Sb) | NA | 1.622 | 0.025 | 0.05 | µg/dry g | |
| Arsenic (As) | NA | 19.969 | 0.025 | 0.05 | µg/dry g | |
| Barium (Ba) | NA | 366.405 | 0.025 | 0.05 | µg/dry g | |
| Beryllium (Be) | NA | 1.128 | 0.025 | 0.05 | µg/dry g | |
| Cadmium (Cd) | NA | 0.5284 | 0.0025 | 0.005 | µg/dry g | |
| Chromium (Cr) | NA | 157.5345 | 0.0025 | 0.005 | µg/dry g | |
| Copper (Cu) | NA | 259.1059 | 0.0025 | 0.005 | µg/dry g | |
| Iron (Fe) | NA | 43895.5 | 1 | 5 | µg/dry g | |
| Lead (Pb) | NA | 143.8331 | 0.0025 | 0.005 | µg/dry g | |
| Nickel (Ni) | NA | 41.82 | 0.01 | 0.02 | µg/dry g | |
| Selenium (Se) | NA | 0.808 | 0.025 | 0.05 | µg/dry g | |
| Silver (Ag) | NA | 0.84 | 0.01 | 0.02 | µg/dry g | |
| Total Phosphorus | NA | 1353.171 | 0.016 | 0.05 | µg/dry g | |
| Zinc (Zn) | NA | 364.474 | 0.025 | 0.05 | µg/dry g | |

Method: EPA 245.7

Batch ID: E-6013

Prepared: 27-Aug-13

Analyzed: 27-Aug-13

| | | | | | | |
|--------------|----|-------|---------|---------|----------|--|
| Mercury (Hg) | NA | 0.909 | 0.00001 | 0.00002 | µg/dry g | |
|--------------|----|-------|---------|---------|----------|--|

Sample ID: 21754-R1

B13-8396

Method: EPA 6020

Matrix: Sediment

Batch ID: E-5126

Sampled: 12-Jul-13

9:58

Received: 13-Jul-13

Prepared: 09-Aug-13

Analyzed: 17-Aug-13

| | | | | | | |
|----------------|----|---------|--------|-------|----------|--|
| Aluminum (Al) | NA | 23592.3 | 1 | 5 | µg/dry g | |
| Antimony (Sb) | NA | 0.879 | 0.025 | 0.05 | µg/dry g | |
| Arsenic (As) | NA | 15.033 | 0.025 | 0.05 | µg/dry g | |
| Barium (Ba) | NA | 166.796 | 0.025 | 0.05 | µg/dry g | |
| Beryllium (Be) | NA | 0.725 | 0.025 | 0.05 | µg/dry g | |
| Cadmium (Cd) | NA | 0.2924 | 0.0025 | 0.005 | µg/dry g | |
| Chromium (Cr) | NA | 64.8808 | 0.0025 | 0.005 | µg/dry g | |
| Copper (Cu) | NA | 71.6617 | 0.0025 | 0.005 | µg/dry g | |
| Iron (Fe) | NA | 29470.3 | 1 | 5 | µg/dry g | |



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| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|----------------------------|------------------|-------------------------|---------------------------|---------------------|----------------------------|---------------------|
| Lead (Pb) | NA | 32.7904 | 0.0025 | 0.005 | µg/dry g | |
| Nickel (Ni) | NA | 33.2 | 0.01 | 0.02 | µg/dry g | |
| Selenium (Se) | NA | 0.532 | 0.025 | 0.05 | µg/dry g | |
| Silver (Ag) | NA | 0.19 | 0.01 | 0.02 | µg/dry g | |
| Total Phosphorus | NA | 1075.516 | 0.016 | 0.05 | µg/dry g | |
| Zinc (Zn) | NA | 144.918 | 0.025 | 0.05 | µg/dry g | |
| Method: EPA 245.7 | | Batch ID: E-6013 | | Prepared: 27-Aug-13 | | Analyzed: 27-Aug-13 |
| Mercury (Hg) | NA | 0.293 | 0.00001 | 0.00002 | µg/dry g | |
| Sample ID: 21755-R1 | B13-8340 | Matrix: Sediment | Sampled: 12-Jul-13 | 8:19 | Received: 13-Jul-13 | |
| | Method: EPA 6020 | Batch ID: E-5126 | Prepared: 09-Aug-13 | | Analyzed: 17-Aug-13 | |
| Aluminum (Al) | NA | 27322.5 | 1 | 5 | µg/dry g | |
| Antimony (Sb) | NA | 0.859 | 0.025 | 0.05 | µg/dry g | |
| Arsenic (As) | NA | 15.842 | 0.025 | 0.05 | µg/dry g | |
| Barium (Ba) | NA | 263.406 | 0.025 | 0.05 | µg/dry g | |
| Beryllium (Be) | NA | 0.777 | 0.025 | 0.05 | µg/dry g | |
| Cadmium (Cd) | NA | 0.5499 | 0.0025 | 0.005 | µg/dry g | |
| Chromium (Cr) | NA | 71.213 | 0.0025 | 0.005 | µg/dry g | |
| Copper (Cu) | NA | 81.7582 | 0.0025 | 0.005 | µg/dry g | |
| Iron (Fe) | NA | 35235 | 1 | 5 | µg/dry g | |
| Lead (Pb) | NA | 30.1108 | 0.0025 | 0.005 | µg/dry g | |
| Nickel (Ni) | NA | 36.93 | 0.01 | 0.02 | µg/dry g | |
| Selenium (Se) | NA | 1.299 | 0.025 | 0.05 | µg/dry g | |
| Silver (Ag) | NA | 0.33 | 0.01 | 0.02 | µg/dry g | |
| Total Phosphorus | NA | 1455.868 | 0.016 | 0.05 | µg/dry g | |
| Zinc (Zn) | NA | 152.75 | 0.025 | 0.05 | µg/dry g | |
| Method: EPA 245.7 | | Batch ID: E-6013 | | Prepared: 27-Aug-13 | | Analyzed: 27-Aug-13 |
| Mercury (Hg) | NA | 0.335 | 0.00001 | 0.00002 | µg/dry g | |
| Sample ID: 21756-R1 | B13-8347 | Matrix: Sediment | Sampled: 12-Jul-13 | 15:41 | Received: 13-Jul-13 | |
| | Method: EPA 6020 | Batch ID: E-5126 | Prepared: 09-Aug-13 | | Analyzed: 17-Aug-13 | |
| Aluminum (Al) | NA | 35405.9 | 1 | 5 | µg/dry g | |
| Antimony (Sb) | NA | 0.868 | 0.025 | 0.05 | µg/dry g | |



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| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|------------------|----------|----------|--------|-------|----------|---------|
| Arsenic (As) | NA | 12.177 | 0.025 | 0.05 | µg/dry g | |
| Barium (Ba) | NA | 205.847 | 0.025 | 0.05 | µg/dry g | |
| Beryllium (Be) | NA | 0.98 | 0.025 | 0.05 | µg/dry g | |
| Cadmium (Cd) | NA | 0.467 | 0.0025 | 0.005 | µg/dry g | |
| Chromium (Cr) | NA | 71.6157 | 0.0025 | 0.005 | µg/dry g | |
| Copper (Cu) | NA | 54.2716 | 0.0025 | 0.005 | µg/dry g | |
| Iron (Fe) | NA | 40120.6 | 1 | 5 | µg/dry g | |
| Lead (Pb) | NA | 29.6427 | 0.0025 | 0.005 | µg/dry g | |
| Nickel (Ni) | NA | 36.41 | 0.01 | 0.02 | µg/dry g | |
| Selenium (Se) | NA | 0.637 | 0.025 | 0.05 | µg/dry g | |
| Silver (Ag) | NA | 0.31 | 0.01 | 0.02 | µg/dry g | |
| Total Phosphorus | NA | 1225.147 | 0.016 | 0.05 | µg/dry g | |
| Zinc (Zn) | NA | 141.423 | 0.025 | 0.05 | µg/dry g | |

Method: EPA 245.7

Batch ID: E-6013

Prepared: 27-Aug-13

Analyzed: 27-Aug-13

| | | | | | | |
|--------------|----|-------|---------|---------|----------|--|
| Mercury (Hg) | NA | 0.196 | 0.00001 | 0.00002 | µg/dry g | |
|--------------|----|-------|---------|---------|----------|--|

Sample ID: 21757-R1

TMDL6-CP

Matrix: Sediment

Sampled: 12-Jul-13

15:41

Received: 13-Jul-13

Method: EPA 6020

Batch ID: E-5126

Prepared: 09-Aug-13

Analyzed: 17-Aug-13

| | | | | | | |
|----------------|----|---------|--------|-------|----------|--|
| Aluminum (Al) | NA | 20375.2 | 1 | 5 | µg/dry g | |
| Antimony (Sb) | NA | 0.748 | 0.025 | 0.05 | µg/dry g | |
| Arsenic (As) | NA | 9.666 | 0.025 | 0.05 | µg/dry g | |
| Barium (Ba) | NA | 136.003 | 0.025 | 0.05 | µg/dry g | |
| Beryllium (Be) | NA | 0.578 | 0.025 | 0.05 | µg/dry g | |
| Cadmium (Cd) | NA | 0.3673 | 0.0025 | 0.005 | µg/dry g | |
| Chromium (Cr) | NA | 36.6778 | 0.0025 | 0.005 | µg/dry g | |
| Copper (Cu) | NA | 42.2443 | 0.0025 | 0.005 | µg/dry g | |
| Iron (Fe) | NA | 27097.7 | 1 | 5 | µg/dry g | |
| Lead (Pb) | NA | 27.6689 | 0.0025 | 0.005 | µg/dry g | |
| Nickel (Ni) | NA | 21.68 | 0.01 | 0.02 | µg/dry g | |
| Selenium (Se) | NA | 0.282 | 0.025 | 0.05 | µg/dry g | |
| Silver (Ag) | NA | 0.57 | 0.01 | 0.02 | µg/dry g | |
| Zinc (Zn) | NA | 102.72 | 0.025 | 0.05 | µg/dry g | |

Method: EPA 245.7

Batch ID: E-6013

Prepared: 27-Aug-13

Analyzed: 27-Aug-13



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| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|----------------------------|----------|-------------------|-------------------------|---------------------------|--------------|----------------------------|
| Mercury (Hg) | NA | 0.475 | 0.00001 | 0.00002 | µg/dry g | |
| Sample ID: 21758-R1 | | TMDL4-CS | Matrix: Sediment | Sampled: 12-Jul-13 | 12:20 | Received: 13-Jul-13 |
| | | Method: EPA 6020 | Batch ID: E-5126 | Prepared: 09-Aug-13 | | Analyzed: 17-Aug-13 |
| Aluminum (Al) | NA | 32749.1 | 1 | 5 | µg/dry g | |
| Antimony (Sb) | NA | 3.747 | 0.025 | 0.05 | µg/dry g | |
| Arsenic (As) | NA | 16.896 | 0.025 | 0.05 | µg/dry g | |
| Barium (Ba) | NA | 228.622 | 0.025 | 0.05 | µg/dry g | |
| Beryllium (Be) | NA | 0.892 | 0.025 | 0.05 | µg/dry g | |
| Cadmium (Cd) | NA | 2.1904 | 0.0025 | 0.005 | µg/dry g | |
| Chromium (Cr) | NA | 125.2457 | 0.0025 | 0.005 | µg/dry g | |
| Copper (Cu) | NA | 242.6753 | 0.0025 | 0.005 | µg/dry g | |
| Iron (Fe) | NA | 35842.9 | 1 | 5 | µg/dry g | |
| Lead (Pb) | NA | 150.2348 | 0.0025 | 0.005 | µg/dry g | |
| Nickel (Ni) | NA | 43.6 | 0.01 | 0.02 | µg/dry g | |
| Selenium (Se) | NA | 1.121 | 0.025 | 0.05 | µg/dry g | |
| Silver (Ag) | NA | 1.05 | 0.01 | 0.02 | µg/dry g | |
| Zinc (Zn) | NA | 745.634 | 0.025 | 0.05 | µg/dry g | |
| | | Method: EPA 245.7 | Batch ID: E-6013 | Prepared: 27-Aug-13 | | Analyzed: 27-Aug-13 |
| Mercury (Hg) | NA | 0.454 | 0.00001 | 0.00002 | µg/dry g | |
| Sample ID: 21759-R1 | | TMDL3-TB | Matrix: Sediment | Sampled: 12-Jul-13 | 15:41 | Received: 13-Jul-13 |
| | | Method: EPA 6020 | Batch ID: E-5126 | Prepared: 09-Aug-13 | | Analyzed: 17-Aug-13 |
| Aluminum (Al) | NA | 17134.6 | 1 | 5 | µg/dry g | |
| Antimony (Sb) | NA | 0.674 | 0.025 | 0.05 | µg/dry g | |
| Arsenic (As) | NA | 7.907 | 0.025 | 0.05 | µg/dry g | |
| Barium (Ba) | NA | 110.415 | 0.025 | 0.05 | µg/dry g | |
| Beryllium (Be) | NA | 0.496 | 0.025 | 0.05 | µg/dry g | |
| Cadmium (Cd) | NA | 0.2798 | 0.0025 | 0.005 | µg/dry g | |
| Chromium (Cr) | NA | 31.5549 | 0.0025 | 0.005 | µg/dry g | |
| Copper (Cu) | NA | 33.4632 | 0.0025 | 0.005 | µg/dry g | |
| Iron (Fe) | NA | 21927.3 | 1 | 5 | µg/dry g | |
| Lead (Pb) | NA | 21.0388 | 0.0025 | 0.005 | µg/dry g | |



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ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|---------------|----------|--------|-------|------|----------|---------|
| Nickel (Ni) | NA | 18.18 | 0.01 | 0.02 | µg/dry g | |
| Selenium (Se) | NA | 0.263 | 0.025 | 0.05 | µg/dry g | |
| Silver (Ag) | NA | 0.4 | 0.01 | 0.02 | µg/dry g | |
| Zinc (Zn) | NA | 82.07 | 0.025 | 0.05 | µg/dry g | |

Method: EPA 245.7 Batch ID: E-6013 Prepared: 27-Aug-13 Analyzed: 27-Aug-13

| | | | | | | |
|--------------|----|-------|---------|---------|----------|--|
| Mercury (Hg) | NA | 0.348 | 0.00001 | 0.00002 | µg/dry g | |
|--------------|----|-------|---------|---------|----------|--|

Sample ID: 21760-R1

B13-8365

Matrix: Sediment

Sampled: 13-Jul-13

8:37

Received: 13-Jul-13

Method: EPA 6020

Batch ID: E-5126

Prepared: 09-Aug-13

Analyzed: 17-Aug-13

| | | | | | | |
|------------------|----|----------|--------|-------|----------|--|
| Aluminum (Al) | NA | 29306.3 | 1 | 5 | µg/dry g | |
| Antimony (Sb) | NA | 0.868 | 0.025 | 0.05 | µg/dry g | |
| Arsenic (As) | NA | 14.063 | 0.025 | 0.05 | µg/dry g | |
| Barium (Ba) | NA | 204.486 | 0.025 | 0.05 | µg/dry g | |
| Beryllium (Be) | NA | 0.838 | 0.025 | 0.05 | µg/dry g | |
| Cadmium (Cd) | NA | 0.2819 | 0.0025 | 0.005 | µg/dry g | |
| Chromium (Cr) | NA | 55.2212 | 0.0025 | 0.005 | µg/dry g | |
| Copper (Cu) | NA | 52.9106 | 0.0025 | 0.005 | µg/dry g | |
| Iron (Fe) | NA | 36730 | 1 | 5 | µg/dry g | |
| Lead (Pb) | NA | 19.0713 | 0.0025 | 0.005 | µg/dry g | |
| Nickel (Ni) | NA | 32.36 | 0.01 | 0.02 | µg/dry g | |
| Selenium (Se) | NA | 0.427 | 0.025 | 0.05 | µg/dry g | |
| Silver (Ag) | NA | 0.18 | 0.01 | 0.02 | µg/dry g | |
| Total Phosphorus | NA | 1204.621 | 0.016 | 0.05 | µg/dry g | |
| Zinc (Zn) | NA | 122.107 | 0.025 | 0.05 | µg/dry g | |

Method: EPA 245.7 Batch ID: E-6013 Prepared: 27-Aug-13 Analyzed: 27-Aug-13

| | | | | | | |
|--------------|----|-------|---------|---------|----------|--|
| Mercury (Hg) | NA | 0.143 | 0.00001 | 0.00002 | µg/dry g | |
|--------------|----|-------|---------|---------|----------|--|

Sample ID: 21761-R1

B13-8318

Matrix: Sediment

Sampled: 13-Jul-13

10:57

Received: 13-Jul-13

Method: EPA 6020

Batch ID: E-5126

Prepared: 09-Aug-13

Analyzed: 17-Aug-13

| | | | | | | |
|---------------|----|---------|-------|------|----------|--|
| Aluminum (Al) | NA | 32329.8 | 1 | 5 | µg/dry g | |
| Antimony (Sb) | NA | 0.799 | 0.025 | 0.05 | µg/dry g | |
| Arsenic (As) | NA | 13.58 | 0.025 | 0.05 | µg/dry g | |
| Barium (Ba) | NA | 214.136 | 0.025 | 0.05 | µg/dry g | |



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|----------------------------|-----------------|-------------------------|---------|---------------------------|--------------|----------------------------|
| Beryllium (Be) | NA | 0.843 | 0.025 | 0.05 | µg/dry g | |
| Cadmium (Cd) | NA | 0.4872 | 0.0025 | 0.005 | µg/dry g | |
| Chromium (Cr) | NA | 68.7606 | 0.0025 | 0.005 | µg/dry g | |
| Copper (Cu) | NA | 58.3436 | 0.0025 | 0.005 | µg/dry g | |
| Iron (Fe) | NA | 38571.2 | 1 | 5 | µg/dry g | |
| Lead (Pb) | NA | 26.0625 | 0.0025 | 0.005 | µg/dry g | |
| Nickel (Ni) | NA | 34.87 | 0.01 | 0.02 | µg/dry g | |
| Selenium (Se) | NA | 0.874 | 0.025 | 0.05 | µg/dry g | |
| Silver (Ag) | NA | 0.32 | 0.01 | 0.02 | µg/dry g | |
| Total Phosphorus | NA | 1279.988 | 0.016 | 0.05 | µg/dry g | |
| Zinc (Zn) | NA | 137.542 | 0.025 | 0.05 | µg/dry g | |
| Method: EPA 245.7 | | Batch ID: E-6013 | | Prepared: 27-Aug-13 | | Analyzed: 27-Aug-13 |
| Mercury (Hg) | NA | 0.232 | 0.00001 | 0.00002 | µg/dry g | |
| Sample ID: 21762-R1 | B13-8322 | Matrix: Sediment | | Sampled: 13-Jul-13 | 10:11 | Received: 13-Jul-13 |
| Method: EPA 6020 | | Batch ID: E-5126 | | Prepared: 09-Aug-13 | | Analyzed: 17-Aug-13 |
| Aluminum (Al) | NA | 34080.6 | 1 | 5 | µg/dry g | |
| Antimony (Sb) | NA | 0.767 | 0.025 | 0.05 | µg/dry g | |
| Arsenic (As) | NA | 12.981 | 0.025 | 0.05 | µg/dry g | |
| Barium (Ba) | NA | 222.781 | 0.025 | 0.05 | µg/dry g | |
| Beryllium (Be) | NA | 0.914 | 0.025 | 0.05 | µg/dry g | |
| Cadmium (Cd) | NA | 0.4607 | 0.0025 | 0.005 | µg/dry g | |
| Chromium (Cr) | NA | 73.0123 | 0.0025 | 0.005 | µg/dry g | |
| Copper (Cu) | NA | 55.2988 | 0.0025 | 0.005 | µg/dry g | |
| Iron (Fe) | NA | 39830.9 | 1 | 5 | µg/dry g | |
| Lead (Pb) | NA | 30.8342 | 0.0025 | 0.005 | µg/dry g | |
| Nickel (Ni) | NA | 35 | 0.01 | 0.02 | µg/dry g | |
| Selenium (Se) | NA | 0.717 | 0.025 | 0.05 | µg/dry g | |
| Silver (Ag) | NA | 0.34 | 0.01 | 0.02 | µg/dry g | |
| Total Phosphorus | NA | 1319.251 | 0.016 | 0.05 | µg/dry g | |
| Zinc (Zn) | NA | 145.192 | 0.025 | 0.05 | µg/dry g | |
| Method: EPA 245.7 | | Batch ID: E-6013 | | Prepared: 27-Aug-13 | | Analyzed: 27-Aug-13 |
| Mercury (Hg) | NA | 0.223 | 0.00001 | 0.00002 | µg/dry g | |



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ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|----------------------------|-------------------|-------------------------|---------|--------------------------------|----------|----------------------------|
| Sample ID: 21763-R1 | | Matrix: Sediment | | Sampled: 13-Jul-13 7:43 | | Received: 13-Jul-13 |
| | B13-8333 | Batch ID: E-5127 | | Prepared: 09-Aug-13 | | Analyzed: 17-Aug-13 |
| | Method: EPA 6020 | | | | | |
| Aluminum (Al) | NA | 17955.6 | 1 | 5 | µg/dry g | |
| Antimony (Sb) | NA | 0.446 | 0.025 | 0.05 | µg/dry g | |
| Arsenic (As) | NA | 7.4 | 0.025 | 0.05 | µg/dry g | |
| Barium (Ba) | NA | 136.238 | 0.025 | 0.05 | µg/dry g | |
| Beryllium (Be) | NA | 0.466 | 0.025 | 0.05 | µg/dry g | |
| Cadmium (Cd) | NA | 0.2342 | 0.0025 | 0.005 | µg/dry g | |
| Chromium (Cr) | NA | 34.8592 | 0.0025 | 0.005 | µg/dry g | |
| Copper (Cu) | NA | 19.7102 | 0.0025 | 0.005 | µg/dry g | |
| Iron (Fe) | NA | 23626.9 | 1 | 5 | µg/dry g | |
| Lead (Pb) | NA | 15.1371 | 0.0025 | 0.005 | µg/dry g | |
| Nickel (Ni) | NA | 17.84 | 0.01 | 0.02 | µg/dry g | |
| Selenium (Se) | NA | 0.231 | 0.025 | 0.05 | µg/dry g | |
| Silver (Ag) | NA | 0.1 | 0.01 | 0.02 | µg/dry g | |
| Total Phosphorus | NA | 1255.624 | 0.016 | 0.05 | µg/dry g | |
| Zinc (Zn) | NA | 71.853 | 0.025 | 0.05 | µg/dry g | |
| | Method: EPA 245.7 | Batch ID: E-6013 | | Prepared: 27-Aug-13 | | Analyzed: 27-Aug-13 |
| Mercury (Hg) | NA | 0.083 | 0.00001 | 0.00002 | µg/dry g | |
| Sample ID: 21764-R1 | | Matrix: Sediment | | Sampled: 13-Jul-13 9:22 | | Received: 13-Jul-13 |
| | B13-8356 | Batch ID: E-5127 | | Prepared: 09-Aug-13 | | Analyzed: 17-Aug-13 |
| | Method: EPA 6020 | | | | | |
| Aluminum (Al) | NA | 22000.3 | 1 | 5 | µg/dry g | |
| Antimony (Sb) | NA | 0.724 | 0.025 | 0.05 | µg/dry g | |
| Arsenic (As) | NA | 10.314 | 0.025 | 0.05 | µg/dry g | |
| Barium (Ba) | NA | 147.309 | 0.025 | 0.05 | µg/dry g | |
| Beryllium (Be) | NA | 0.648 | 0.025 | 0.05 | µg/dry g | |
| Cadmium (Cd) | NA | 0.2731 | 0.0025 | 0.005 | µg/dry g | |
| Chromium (Cr) | NA | 46.4096 | 0.0025 | 0.005 | µg/dry g | |
| Copper (Cu) | NA | 49.22 | 0.0025 | 0.005 | µg/dry g | |
| Iron (Fe) | NA | 30695.8 | 1 | 5 | µg/dry g | |
| Lead (Pb) | NA | 21.6035 | 0.0025 | 0.005 | µg/dry g | |



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CA ELAP #2769

Elements

ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|-------------------|----------|------------------|---------|---------------------|----------|---------------------|
| Nickel (Ni) | NA | 27.62 | 0.01 | 0.02 | µg/dry g | |
| Selenium (Se) | NA | 0.348 | 0.025 | 0.05 | µg/dry g | |
| Silver (Ag) | NA | 0.19 | 0.01 | 0.02 | µg/dry g | |
| Total Phosphorus | NA | 1139.706 | 0.016 | 0.05 | µg/dry g | |
| Zinc (Zn) | NA | 108.773 | 0.025 | 0.05 | µg/dry g | |
| Method: EPA 245.7 | | Batch ID: E-6013 | | Prepared: 27-Aug-13 | | Analyzed: 27-Aug-13 |
| Mercury (Hg) | NA | 0.142 | 0.00001 | 0.00002 | µg/dry g | |



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PCB Congeners

ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|----------------------------|--------------------------------------|---|------|--|--------------|---|
| Sample ID: 21733-R1 | B13-8382 Method: EPA 8270C | Matrix: Sediment Batch ID: O-6001 | | Sampled: 10-Jul-13 Prepared: 09-Aug-13 | 11:04 | Received: 13-Jul-13 Analyzed: 30-Aug-13 |
| PCB003 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB005 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB008 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB015 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB018 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB027 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB028 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB029 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB031 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB033 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB037 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB044 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB049 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB052 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB056(060) | NA | ND | 0.1 | 0.2 | ng/dry g | |
| PCB066 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB070 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB074 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB077 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB081 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB087 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB095 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB097 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB099 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB101 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB105 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB110 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB114 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB118 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB119 | NA | ND | 0.05 | 0.1 | ng/dry g | |



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PCB Congeners

ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|-------------|----------|--------|------|-----|----------|---------|
| PCB123 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB126 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB128 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB137 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB138 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB141 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB149 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB151 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB153 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB156 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB157 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB158 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB167 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB168+132 | NA | ND | 0.1 | 0.2 | ng/dry g | |
| PCB169 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB170 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB174 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB177 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB180 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB183 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB187 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB189 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB194 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB195 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB199(200) | NA | ND | 0.1 | 0.2 | ng/dry g | |
| PCB201 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB203 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB206 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB209 | NA | ND | 0.05 | 0.1 | ng/dry g | |

Sample ID: 21734-R1

B13-8374

Method: EPA 8270C

Matrix: Sediment

Batch ID: O-6001

Sampled: 10-Jul-13 14:28

Prepared: 09-Aug-13

Received: 13-Jul-13

Analyzed: 30-Aug-13

PCB003

NA

ND

0.05

0.1

ng/dry g

PHYSIS Project ID: 1307001-001

Client: AMEC

Project: POLA/POLB Harbor Toxics TMDL and Bight '13



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CA ELAP #2769

PCB Congeners

ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|-------------|----------|--------|------|-----|----------|---------|
| PCB005 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB008 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB015 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB018 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB027 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB028 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB029 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB031 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB033 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB037 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB044 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB049 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB052 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB056(060) | NA | ND | 0.1 | 0.2 | ng/dry g | |
| PCB066 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB070 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB074 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB077 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB081 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB087 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB095 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB097 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB099 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB101 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB105 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB110 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB114 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB118 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB119 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB123 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB126 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB128 | NA | ND | 0.05 | 0.1 | ng/dry g | |



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PCB Congeners

ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|-------------|----------|--------|------|-----|----------|---------|
| PCB137 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB138 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB141 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB149 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB151 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB153 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB156 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB157 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB158 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB167 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB168+132 | NA | ND | 0.1 | 0.2 | ng/dry g | |
| PCB169 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB170 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB174 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB177 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB180 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB183 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB187 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB189 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB194 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB195 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB199(200) | NA | ND | 0.1 | 0.2 | ng/dry g | |
| PCB201 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB203 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB206 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB209 | NA | ND | 0.05 | 0.1 | ng/dry g | |

Sample ID: 21735-R1

B13-8371

Method: EPA 8270C

Matrix: Sediment

Batch ID: O-6001

Sampled: 10-Jul-13

12:03

Received: 13-Jul-13

Prepared: 09-Aug-13

Analyzed: 30-Aug-13

| | | | | | | |
|--------|----|----|------|-----|----------|--|
| PCB003 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB005 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB008 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB015 | NA | ND | 0.05 | 0.1 | ng/dry g | |

PHYSIS Project ID: 1307001-001

Client: AMEC

Project: POLA/POLB Harbor Toxics TMDL and Bight '13



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PCB Congeners

ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|-------------|----------|--------|------|-----|----------|---------|
| PCB018 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB027 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB028 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB029 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB031 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB033 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB037 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB044 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB049 | NA | 0.2 | 0.05 | 0.1 | ng/dry g | |
| PCB052 | NA | 0.4 | 0.05 | 0.1 | ng/dry g | |
| PCB056(060) | NA | ND | 0.1 | 0.2 | ng/dry g | |
| PCB066 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB070 | NA | 0.3 | 0.05 | 0.1 | ng/dry g | |
| PCB074 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB077 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB081 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB087 | NA | 0.4 | 0.05 | 0.1 | ng/dry g | |
| PCB095 | NA | 0.6 | 0.05 | 0.1 | ng/dry g | |
| PCB097 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB099 | NA | 0.4 | 0.05 | 0.1 | ng/dry g | |
| PCB101 | NA | 1 | 0.05 | 0.1 | ng/dry g | |
| PCB105 | NA | 0.3 | 0.05 | 0.1 | ng/dry g | |
| PCB110 | NA | 0.8 | 0.05 | 0.1 | ng/dry g | |
| PCB114 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB118 | NA | 0.7 | 0.05 | 0.1 | ng/dry g | |
| PCB119 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB123 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB126 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB128 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB137 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB138 | NA | 0.9 | 0.05 | 0.1 | ng/dry g | |
| PCB141 | NA | ND | 0.05 | 0.1 | ng/dry g | |



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PCB Congeners

ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|-------------|----------|--------|------|-----|----------|---------|
| PCB149 | NA | 0.6 | 0.05 | 0.1 | ng/dry g | |
| PCB151 | NA | 0.2 | 0.05 | 0.1 | ng/dry g | |
| PCB153 | NA | 0.8 | 0.05 | 0.1 | ng/dry g | |
| PCB156 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB157 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB158 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB167 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB168+132 | NA | 0.3 | 0.1 | 0.2 | ng/dry g | |
| PCB169 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB170 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB174 | NA | 0.4 | 0.05 | 0.1 | ng/dry g | |
| PCB177 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB180 | NA | 0.8 | 0.05 | 0.1 | ng/dry g | |
| PCB183 | NA | 0.2 | 0.05 | 0.1 | ng/dry g | |
| PCB187 | NA | 0.3 | 0.05 | 0.1 | ng/dry g | |
| PCB189 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB194 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB195 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB199(200) | NA | ND | 0.1 | 0.2 | ng/dry g | |
| PCB201 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB203 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB206 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB209 | NA | ND | 0.05 | 0.1 | ng/dry g | |

Sample ID: 21736-R1

B13-8363

Method: EPA 8270C

Matrix: Sediment

Batch ID: O-6001

Sampled: 10-Jul-13

13:38

Prepared: 09-Aug-13

Received: 13-Jul-13

Analyzed: 30-Aug-13

| | | | | | | |
|--------|----|----|------|-----|----------|--|
| PCB003 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB005 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB008 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB015 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB018 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB027 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB028 | NA | ND | 0.05 | 0.1 | ng/dry g | |

PHYSIS Project ID: 1307001-001

Client: AMEC

Project: POLA/POLB Harbor Toxics TMDL and Bight '13



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CA ELAP #2769

PCB Congeners

ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|-------------|----------|--------|------|-----|----------|---------|
| PCB029 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB031 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB033 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB037 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB044 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB049 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB052 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB056(060) | NA | ND | 0.1 | 0.2 | ng/dry g | |
| PCB066 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB070 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB074 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB077 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB081 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB087 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB095 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB097 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB099 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB101 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB105 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB110 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB114 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB118 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB119 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB123 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB126 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB128 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB137 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB138 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB141 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB149 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB151 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB153 | NA | ND | 0.05 | 0.1 | ng/dry g | |



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PCB Congeners

ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|-------------|----------|--------|------|-----|----------|---------|
| PCB156 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB157 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB158 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB167 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB168+132 | NA | ND | 0.1 | 0.2 | ng/dry g | |
| PCB169 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB170 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB174 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB177 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB180 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB183 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB187 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB189 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB194 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB195 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB199(200) | NA | ND | 0.1 | 0.2 | ng/dry g | |
| PCB201 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB203 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB206 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB209 | NA | ND | 0.05 | 0.1 | ng/dry g | |

Sample ID: 21737-R1

B13-8360

Method: EPA 8270C

Matrix: Sediment

Batch ID: O-6001

Sampled: 10-Jul-13

15:30

Prepared: 09-Aug-13

Received: 13-Jul-13

Analyzed: 30-Aug-13

| | | | | | | |
|--------|----|----|------|-----|----------|--|
| PCB003 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB005 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB008 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB015 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB018 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB027 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB028 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB029 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB031 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB033 | NA | ND | 0.05 | 0.1 | ng/dry g | |

PHYSIS Project ID: 1307001-001

Client: AMEC

Project: POLA/POLB Harbor Toxics TMDL and Bight '13



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CA ELAP #2769

PCB Congeners

ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|-------------|----------|--------|------|-----|----------|---------|
| PCB037 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB044 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB049 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB052 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB056(060) | NA | ND | 0.1 | 0.2 | ng/dry g | |
| PCB066 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB070 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB074 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB077 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB081 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB087 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB095 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB097 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB099 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB101 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB105 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB110 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB114 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB118 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB119 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB123 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB126 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB128 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB137 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB138 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB141 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB149 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB151 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB153 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB156 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB157 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB158 | NA | ND | 0.05 | 0.1 | ng/dry g | |



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CA ELAP #2769

PCB Congeners

ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|-------------|----------|--------|------|-----|----------|---------|
| PCB167 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB168+132 | NA | ND | 0.1 | 0.2 | ng/dry g | |
| PCB169 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB170 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB174 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB177 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB180 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB183 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB187 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB189 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB194 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB195 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB199(200) | NA | ND | 0.1 | 0.2 | ng/dry g | |
| PCB201 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB203 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB206 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB209 | NA | ND | 0.05 | 0.1 | ng/dry g | |

Sample ID: 21738-R1

B13-8349

Method: EPA 8270C

Matrix: Sediment

Batch ID: O-6001

Sampled: 10-Jul-13

9:51

Received: 13-Jul-13

Prepared: 09-Aug-13

Analyzed: 30-Aug-13

| | | | | | | |
|--------|----|----|------|-----|----------|--|
| PCB003 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB005 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB008 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB015 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB018 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB027 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB028 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB029 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB031 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB033 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB037 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB044 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB049 | NA | ND | 0.05 | 0.1 | ng/dry g | |

PHYSIS Project ID: 1307001-001

Client: AMEC

Project: POLA/POLB Harbor Toxics TMDL and Bight '13



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CA ELAP #2769

PCB Congeners

ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|-------------|----------|--------|------|-----|----------|---------|
| PCB052 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB056(060) | NA | ND | 0.1 | 0.2 | ng/dry g | |
| PCB066 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB070 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB074 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB077 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB081 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB087 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB095 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB097 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB099 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB101 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB105 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB110 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB114 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB118 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB119 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB123 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB126 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB128 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB137 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB138 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB141 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB149 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB151 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB153 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB156 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB157 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB158 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB167 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB168+132 | NA | ND | 0.1 | 0.2 | ng/dry g | |
| PCB169 | NA | ND | 0.05 | 0.1 | ng/dry g | |



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CA ELAP #2769

PCB Congeners

ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|-------------|----------|--------|------|-----|----------|---------|
| PCB170 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB174 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB177 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB180 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB183 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB187 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB189 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB194 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB195 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB199(200) | NA | ND | 0.1 | 0.2 | ng/dry g | |
| PCB201 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB203 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB206 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB209 | NA | ND | 0.05 | 0.1 | ng/dry g | |

Sample ID: 21739-R1

B13-8326

Method: EPA 8270C

Matrix: Sediment

Batch ID: O-6001

Sampled: 10-Jul-13

8:28

Prepared: 09-Aug-13

Received: 13-Jul-13

Analyzed: 30-Aug-13

| | | | | | | |
|-------------|----|----|------|-----|----------|--|
| PCB003 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB005 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB008 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB015 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB018 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB027 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB028 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB029 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB031 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB033 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB037 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB044 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB049 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB052 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB056(060) | NA | ND | 0.1 | 0.2 | ng/dry g | |
| PCB066 | NA | ND | 0.05 | 0.1 | ng/dry g | |

PHYSIS Project ID: 1307001-001

Client: AMEC

Project: POLA/POLB Harbor Toxics TMDL and Bight '13



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CA ELAP #2769

PCB Congeners

ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|------------|----------|--------|------|-----|----------|---------|
| PCB070 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB074 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB077 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB081 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB087 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB095 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB097 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB099 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB101 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB105 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB110 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB114 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB118 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB119 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB123 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB126 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB128 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB137 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB138 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB141 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB149 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB151 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB153 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB156 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB157 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB158 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB167 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB168+132 | NA | ND | 0.1 | 0.2 | ng/dry g | |
| PCB169 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB170 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB174 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB177 | NA | ND | 0.05 | 0.1 | ng/dry g | |



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CA ELAP #2769

PCB Congeners

ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|-------------|----------|--------|------|-----|----------|---------|
| PCB180 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB183 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB187 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB189 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB194 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB195 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB199(200) | NA | ND | 0.1 | 0.2 | ng/dry g | |
| PCB201 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB203 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB206 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB209 | NA | ND | 0.05 | 0.1 | ng/dry g | |

Sample ID: 21740-R1

B13-8367

Method: EPA 8270C

Matrix: Sediment

Batch ID: O-6001

Sampled: 11-Jul-13

14:10

Received: 13-Jul-13

Prepared: 09-Aug-13

Analyzed: 30-Aug-13

| | | | | | | |
|-------------|----|----|------|-----|----------|--|
| PCB003 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB005 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB008 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB015 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB018 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB027 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB028 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB029 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB031 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB033 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB037 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB044 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB049 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB052 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB056(060) | NA | ND | 0.1 | 0.2 | ng/dry g | |
| PCB066 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB070 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB074 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB077 | NA | ND | 0.05 | 0.1 | ng/dry g | |

PHYSIS Project ID: 1307001-001

Client: AMEC

Project: POLA/POLB Harbor Toxics TMDL and Bight '13



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CA ELAP #2769

PCB Congeners

ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|------------|----------|--------|------|-----|----------|---------|
| PCB081 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB087 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB095 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB097 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB099 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB101 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB105 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB110 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB114 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB118 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB119 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB123 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB126 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB128 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB137 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB138 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB141 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB149 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB151 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB153 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB156 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB157 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB158 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB167 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB168+132 | NA | ND | 0.1 | 0.2 | ng/dry g | |
| PCB169 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB170 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB174 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB177 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB180 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB183 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB187 | NA | ND | 0.05 | 0.1 | ng/dry g | |



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CA ELAP #2769

PCB Congeners

ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|-------------|----------|--------|------|-----|----------|---------|
| PCB189 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB194 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB195 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB199(200) | NA | ND | 0.1 | 0.2 | ng/dry g | |
| PCB201 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB203 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB206 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB209 | NA | ND | 0.05 | 0.1 | ng/dry g | |

Sample ID: 21741-R1

B13-8302

Method: EPA 8270C

Matrix: Sediment

Batch ID: O-6001

Sampled: 11-Jul-13

9:29

Prepared: 09-Aug-13

Received: 13-Jul-13

Analyzed: 30-Aug-13

| | | | | | | |
|-------------|----|----|------|-----|----------|--|
| PCB003 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB005 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB008 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB015 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB018 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB027 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB028 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB029 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB031 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB033 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB037 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB044 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB049 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB052 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB056(060) | NA | ND | 0.1 | 0.2 | ng/dry g | |
| PCB066 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB070 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB074 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB077 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB081 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB087 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB095 | NA | ND | 0.05 | 0.1 | ng/dry g | |



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CA ELAP #2769

PCB Congeners

ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|------------|----------|--------|------|-----|----------|---------|
| PCB097 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB099 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB101 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB105 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB110 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB114 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB118 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB119 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB123 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB126 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB128 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB137 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB138 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB141 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB149 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB151 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB153 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB156 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB157 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB158 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB167 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB168+132 | NA | ND | 0.1 | 0.2 | ng/dry g | |
| PCB169 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB170 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB174 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB177 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB180 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB183 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB187 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB189 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB194 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB195 | NA | ND | 0.05 | 0.1 | ng/dry g | |



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CA ELAP #2769

PCB Congeners

ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|-------------|----------|--------|------|-----|----------|---------|
| PCB199(200) | NA | ND | 0.1 | 0.2 | ng/dry g | |
| PCB201 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB203 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB206 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB209 | NA | ND | 0.05 | 0.1 | ng/dry g | |

Sample ID: 21742-R1

B13-8304

Method: EPA 8270C

Matrix: Sediment

Batch ID: O-6001

Sampled: 11-Jul-13

16:24

Received: 13-Jul-13

Prepared: 09-Aug-13

Analyzed: 30-Aug-13

| | | | | | | |
|-------------|----|----|------|-----|----------|--|
| PCB003 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB005 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB008 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB015 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB018 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB027 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB028 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB029 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB031 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB033 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB037 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB044 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB049 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB052 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB056(060) | NA | ND | 0.1 | 0.2 | ng/dry g | |
| PCB066 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB070 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB074 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB077 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB081 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB087 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB095 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB097 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB099 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB101 | NA | ND | 0.05 | 0.1 | ng/dry g | |



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CA ELAP #2769

PCB Congeners

ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|-------------|----------|--------|------|-----|----------|---------|
| PCB105 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB110 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB114 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB118 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB119 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB123 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB126 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB128 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB137 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB138 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB141 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB149 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB151 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB153 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB156 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB157 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB158 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB167 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB168+132 | NA | ND | 0.1 | 0.2 | ng/dry g | |
| PCB169 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB170 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB174 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB177 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB180 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB183 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB187 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB189 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB194 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB195 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB199(200) | NA | ND | 0.1 | 0.2 | ng/dry g | |
| PCB201 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB203 | NA | ND | 0.05 | 0.1 | ng/dry g | |



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PCB Congeners

ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|---------|----------|--------|------|-----|----------|---------|
| PCB206 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB209 | NA | ND | 0.05 | 0.1 | ng/dry g | |

Sample ID: 21743-R1

B13-8306

Method: EPA 8270C

Matrix: Sediment

Batch ID: O-6003

Sampled: 11-Jul-13

13:00

Prepared: 15-Aug-13

Received: 13-Jul-13

Analyzed: 30-Aug-13

| | | | | | | |
|-------------|----|----|------|-----|----------|--|
| PCB003 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB005 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB008 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB015 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB018 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB027 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB028 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB029 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB031 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB033 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB037 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB044 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB049 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB052 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB056(060) | NA | ND | 0.1 | 0.2 | ng/dry g | |
| PCB066 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB070 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB074 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB077 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB081 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB087 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB095 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB097 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB099 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB101 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB105 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB110 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB114 | NA | ND | 0.05 | 0.1 | ng/dry g | |



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CA ELAP #2769

PCB Congeners

ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|-------------|----------|--------|------|-----|----------|---------|
| PCB118 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB119 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB123 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB126 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB128 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB137 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB138 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB141 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB149 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB151 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB153 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB156 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB157 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB158 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB167 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB168+132 | NA | ND | 0.1 | 0.2 | ng/dry g | |
| PCB169 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB170 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB174 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB177 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB180 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB183 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB187 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB189 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB194 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB195 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB199(200) | NA | ND | 0.1 | 0.2 | ng/dry g | |
| PCB201 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB203 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB206 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB209 | NA | ND | 0.05 | 0.1 | ng/dry g | |

Sample ID: 21744-R1

B13-8308

Matrix: Sediment

Sampled: 11-Jul-13

17:06

Received: 13-Jul-13

PHYSIS Project ID: 1307001-001

Client: AMEC

Project: POLA/POLB Harbor Toxics TMDL and Bight '13



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CA ELAP #2769

PCB Congeners

ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|-------------------|----------|------------------|------|---------------------|----------|---------------------|
| Method: EPA 8270C | | Batch ID: O-6003 | | Prepared: 15-Aug-13 | | Analyzed: 30-Aug-13 |
| PCB003 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB005 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB008 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB015 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB018 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB027 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB028 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB029 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB031 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB033 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB037 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB044 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB049 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB052 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB056(060) | NA | ND | 0.1 | 0.2 | ng/dry g | |
| PCB066 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB070 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB074 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB077 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB081 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB087 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB095 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB097 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB099 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB101 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB105 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB110 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB114 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB118 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB119 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB123 | NA | ND | 0.05 | 0.1 | ng/dry g | |



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CA ELAP #2769

PCB Congeners

ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|-------------|----------|--------|------|-----|----------|---------|
| PCB126 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB128 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB137 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB138 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB141 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB149 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB151 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB153 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB156 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB157 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB158 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB167 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB168+132 | NA | ND | 0.1 | 0.2 | ng/dry g | |
| PCB169 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB170 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB174 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB177 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB180 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB183 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB187 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB189 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB194 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB195 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB199(200) | NA | ND | 0.1 | 0.2 | ng/dry g | |
| PCB201 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB203 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB206 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB209 | NA | ND | 0.05 | 0.1 | ng/dry g | |

Sample ID: 21745-R1

B13-8310

Method: EPA 8270C

Matrix: Sediment

Batch ID: O-6005

Sampled: 11-Jul-13

17:51

Prepared: 24-Aug-13

Received: 13-Jul-13

Analyzed: 06-Sep-13

| | | | | | | |
|--------|----|----|------|-----|----------|--|
| PCB003 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB005 | NA | ND | 0.05 | 0.1 | ng/dry g | |

PHYSIS Project ID: 1307001-001

Client: AMEC

Project: POLA/POLB Harbor Toxics TMDL and Bight '13



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CA ELAP #2769

PCB Congeners

ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|-------------|----------|--------|------|-----|----------|---------|
| PCB008 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB015 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB018 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB027 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB028 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB029 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB031 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB033 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB037 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB044 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB049 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB052 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB056(060) | NA | ND | 0.1 | 0.2 | ng/dry g | |
| PCB066 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB070 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB074 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB077 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB081 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB087 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB095 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB097 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB099 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB101 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB105 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB110 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB114 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB118 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB119 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB123 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB126 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB128 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB137 | NA | ND | 0.05 | 0.1 | ng/dry g | |



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PCB Congeners

ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|-------------|----------|--------|------|-----|----------|---------|
| PCB138 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB141 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB149 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB151 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB153 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB156 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB157 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB158 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB167 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB168+132 | NA | ND | 0.1 | 0.2 | ng/dry g | |
| PCB169 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB170 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB174 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB177 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB180 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB183 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB187 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB189 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB194 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB195 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB199(200) | NA | ND | 0.1 | 0.2 | ng/dry g | |
| PCB201 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB203 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB206 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB209 | NA | ND | 0.05 | 0.1 | ng/dry g | |

Sample ID: 21746-R1

B13-8316

Method: EPA 8270C

Matrix: Sediment

Batch ID: O-6005

Sampled: 11-Jul-13

10:23

Received: 13-Jul-13

Prepared: 24-Aug-13

Analyzed: 06-Sep-13

| | | | | | | |
|--------|----|----|------|-----|----------|--|
| PCB003 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB005 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB008 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB015 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB018 | NA | ND | 0.05 | 0.1 | ng/dry g | |

PHYSIS Project ID: 1307001-001

Client: AMEC

Project: POLA/POLB Harbor Toxics TMDL and Bight '13



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CA ELAP #2769

PCB Congeners

ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|-------------|----------|--------|------|-----|----------|---------|
| PCB027 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB028 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB029 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB031 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB033 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB037 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB044 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB049 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB052 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB056(060) | NA | ND | 0.1 | 0.2 | ng/dry g | |
| PCB066 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB070 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB074 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB077 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB081 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB087 | NA | 0.3 | 0.05 | 0.1 | ng/dry g | |
| PCB095 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB097 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB099 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB101 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB105 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB110 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB114 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB118 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB119 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB123 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB126 | NA | 2 | 0.05 | 0.1 | ng/dry g | |
| PCB128 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB137 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB138 | NA | 0.2 | 0.05 | 0.1 | ng/dry g | |
| PCB141 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB149 | NA | ND | 0.05 | 0.1 | ng/dry g | |



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CA ELAP #2769

PCB Congeners

ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|-------------|----------|--------|------|-----|----------|---------|
| PCB151 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB153 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB156 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB157 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB158 | NA | 0.2 | 0.05 | 0.1 | ng/dry g | |
| PCB167 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB168+132 | NA | ND | 0.1 | 0.2 | ng/dry g | |
| PCB169 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB170 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB174 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB177 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB180 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB183 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB187 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB189 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB194 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB195 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB199(200) | NA | ND | 0.1 | 0.2 | ng/dry g | |
| PCB201 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB203 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB206 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB209 | NA | ND | 0.05 | 0.1 | ng/dry g | |

Sample ID: 21747-R1

TMDL2-FH

Method: EPA 8270C

Matrix: Sediment

Batch ID: O-6005

Sampled: 11-Jul-13

15:25

Received: 13-Jul-13

Prepared: 24-Aug-13

Analyzed: 06-Sep-13

| | | | | | | |
|--------|----|----|------|-----|----------|--|
| PCB003 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB005 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB008 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB015 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB018 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB027 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB028 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB029 | NA | ND | 0.05 | 0.1 | ng/dry g | |

PHYSIS Project ID: 1307001-001

Client: AMEC

Project: POLA/POLB Harbor Toxics TMDL and Bight '13



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CA ELAP #2769

PCB Congeners

ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|-------------|----------|--------|------|-----|----------|---------|
| PCB031 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB033 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB037 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB044 | NA | 0.7 | 0.05 | 0.1 | ng/dry g | |
| PCB049 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB052 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB056(060) | NA | ND | 0.1 | 0.2 | ng/dry g | |
| PCB066 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB070 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB074 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB077 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB081 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB087 | NA | 0.2 | 0.05 | 0.1 | ng/dry g | |
| PCB095 | NA | 0.3 | 0.05 | 0.1 | ng/dry g | |
| PCB097 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB099 | NA | 0.3 | 0.05 | 0.1 | ng/dry g | |
| PCB101 | NA | 0.6 | 0.05 | 0.1 | ng/dry g | |
| PCB105 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB110 | NA | 0.5 | 0.05 | 0.1 | ng/dry g | |
| PCB114 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB118 | NA | 0.7 | 0.05 | 0.1 | ng/dry g | |
| PCB119 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB123 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB126 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB128 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB137 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB138 | NA | 2 | 0.05 | 0.1 | ng/dry g | |
| PCB141 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB149 | NA | 0.5 | 0.05 | 0.1 | ng/dry g | |
| PCB151 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB153 | NA | 0.7 | 0.05 | 0.1 | ng/dry g | |
| PCB156 | NA | ND | 0.05 | 0.1 | ng/dry g | |



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CA ELAP #2769

PCB Congeners

ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|-------------|----------|--------|------|-----|----------|---------|
| PCB157 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB158 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB167 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB168+132 | NA | ND | 0.1 | 0.2 | ng/dry g | |
| PCB169 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB170 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB174 | NA | 0.3 | 0.05 | 0.1 | ng/dry g | |
| PCB177 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB180 | NA | 1.3 | 0.05 | 0.1 | ng/dry g | |
| PCB183 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB187 | NA | 0.3 | 0.05 | 0.1 | ng/dry g | |
| PCB189 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB194 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB195 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB199(200) | NA | ND | 0.1 | 0.2 | ng/dry g | |
| PCB201 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB203 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB206 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB209 | NA | ND | 0.05 | 0.1 | ng/dry g | |

Sample ID: 21748-R1

TMDL1-CH

Method: EPA 8270C

Matrix: Sediment

Batch ID: O-6005

Sampled: 11-Jul-13

12:07

Received: 13-Jul-13

Prepared: 24-Aug-13

Analyzed: 06-Sep-13

| | | | | | | |
|--------|----|----|------|-----|----------|--|
| PCB003 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB005 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB008 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB015 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB018 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB027 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB028 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB029 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB031 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB033 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB037 | NA | ND | 0.05 | 0.1 | ng/dry g | |

PHYSIS Project ID: 1307001-001

Client: AMEC

Project: POLA/POLB Harbor Toxics TMDL and Bight '13



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CA ELAP #2769

PCB Congeners

ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|-------------|----------|--------|------|-----|----------|---------|
| PCB044 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB049 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB052 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB056(060) | NA | ND | 0.1 | 0.2 | ng/dry g | |
| PCB066 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB070 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB074 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB077 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB081 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB087 | NA | 0.2 | 0.05 | 0.1 | ng/dry g | |
| PCB095 | NA | 0.2 | 0.05 | 0.1 | ng/dry g | |
| PCB097 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB099 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB101 | NA | 0.2 | 0.05 | 0.1 | ng/dry g | |
| PCB105 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB110 | NA | 0.2 | 0.05 | 0.1 | ng/dry g | |
| PCB114 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB118 | NA | 0.2 | 0.05 | 0.1 | ng/dry g | |
| PCB119 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB123 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB126 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB128 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB137 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB138 | NA | 1.2 | 0.05 | 0.1 | ng/dry g | |
| PCB141 | NA | 0.4 | 0.05 | 0.1 | ng/dry g | |
| PCB149 | NA | 0.4 | 0.05 | 0.1 | ng/dry g | |
| PCB151 | NA | 0.1 | 0.05 | 0.1 | ng/dry g | |
| PCB153 | NA | 0.9 | 0.05 | 0.1 | ng/dry g | |
| PCB156 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB157 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB158 | NA | 0.1 | 0.05 | 0.1 | ng/dry g | |
| PCB167 | NA | ND | 0.05 | 0.1 | ng/dry g | |



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CA ELAP #2769

PCB Congeners

ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|-------------|----------|--------|------|-----|----------|---------|
| PCB168+132 | NA | 0.3 | 0.1 | 0.2 | ng/dry g | |
| PCB169 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB170 | NA | 1.7 | 0.05 | 0.1 | ng/dry g | |
| PCB174 | NA | 0.9 | 0.05 | 0.1 | ng/dry g | |
| PCB177 | NA | 0.4 | 0.05 | 0.1 | ng/dry g | |
| PCB180 | NA | 2.3 | 0.05 | 0.1 | ng/dry g | |
| PCB183 | NA | 0.2 | 0.05 | 0.1 | ng/dry g | |
| PCB187 | NA | 0.5 | 0.05 | 0.1 | ng/dry g | |
| PCB189 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB194 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB195 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB199(200) | NA | ND | 0.1 | 0.2 | ng/dry g | |
| PCB201 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB203 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB206 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB209 | NA | ND | 0.05 | 0.1 | ng/dry g | |

Sample ID: 21749-R1

TMDL5-DT

Method: EPA 8270C

Matrix: Sediment

Batch ID: O-6005

Sampled: 11-Jul-13

15:25

Received: 13-Jul-13

Prepared: 24-Aug-13

Analyzed: 06-Sep-13

| | | | | | | |
|--------|----|----|------|-----|----------|--|
| PCB003 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB005 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB008 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB015 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB018 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB027 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB028 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB029 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB031 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB033 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB037 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB044 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB049 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB052 | NA | ND | 0.05 | 0.1 | ng/dry g | |



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CA ELAP #2769

PCB Congeners

ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|-------------|----------|--------|------|-----|----------|---------|
| PCB056(060) | NA | ND | 0.1 | 0.2 | ng/dry g | |
| PCB066 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB070 | NA | 0.4 | 0.05 | 0.1 | ng/dry g | |
| PCB074 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB077 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB081 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB087 | NA | 0.6 | 0.05 | 0.1 | ng/dry g | |
| PCB095 | NA | 1.2 | 0.05 | 0.1 | ng/dry g | |
| PCB097 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB099 | NA | 0.9 | 0.05 | 0.1 | ng/dry g | |
| PCB101 | NA | 2.2 | 0.05 | 0.1 | ng/dry g | |
| PCB105 | NA | 0.4 | 0.05 | 0.1 | ng/dry g | |
| PCB110 | NA | 1.7 | 0.05 | 0.1 | ng/dry g | |
| PCB114 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB118 | NA | 1.5 | 0.05 | 0.1 | ng/dry g | |
| PCB119 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB123 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB126 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB128 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB137 | NA | 0.5 | 0.05 | 0.1 | ng/dry g | |
| PCB138 | NA | 5.1 | 0.05 | 0.1 | ng/dry g | |
| PCB141 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB149 | NA | 1.6 | 0.05 | 0.1 | ng/dry g | |
| PCB151 | NA | 0.5 | 0.05 | 0.1 | ng/dry g | |
| PCB153 | NA | 2.6 | 0.05 | 0.1 | ng/dry g | |
| PCB156 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB157 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB158 | NA | 0.5 | 0.05 | 0.1 | ng/dry g | |
| PCB167 | NA | 1 | 0.05 | 0.1 | ng/dry g | |
| PCB168+132 | NA | 1.1 | 0.1 | 0.2 | ng/dry g | |
| PCB169 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB170 | NA | ND | 0.05 | 0.1 | ng/dry g | |



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CA ELAP #2769

PCB Congeners

ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|-------------|----------|--------|------|-----|----------|---------|
| PCB174 | NA | 1 | 0.05 | 0.1 | ng/dry g | |
| PCB177 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB180 | NA | 2.2 | 0.05 | 0.1 | ng/dry g | |
| PCB183 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB187 | NA | 0.3 | 0.05 | 0.1 | ng/dry g | |
| PCB189 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB194 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB195 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB199(200) | NA | ND | 0.1 | 0.2 | ng/dry g | |
| PCB201 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB203 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB206 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB209 | NA | ND | 0.05 | 0.1 | ng/dry g | |

Sample ID: 21750-R1

B13-8401

Method: EPA 8270C

Matrix: Sediment

Batch ID: O-6005

Sampled: 12-Jul-13

14:42

Received: 13-Jul-13

Prepared: 24-Aug-13

Analyzed: 06-Sep-13

| | | | | | | |
|-------------|----|----|------|-----|----------|--|
| PCB003 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB005 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB008 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB015 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB018 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB027 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB028 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB029 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB031 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB033 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB037 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB044 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB049 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB052 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB056(060) | NA | ND | 0.1 | 0.2 | ng/dry g | |
| PCB066 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB070 | NA | ND | 0.05 | 0.1 | ng/dry g | |

PHYSIS Project ID: 1307001-001

Client: AMEC

Project: POLA/POLB Harbor Toxics TMDL and Bight '13



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CA ELAP #2769

PCB Congeners

ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|------------|----------|--------|------|-----|----------|---------|
| PCB074 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB077 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB081 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB087 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB095 | NA | 0.1 | 0.05 | 0.1 | ng/dry g | |
| PCB097 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB099 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB101 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB105 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB110 | NA | 0.2 | 0.05 | 0.1 | ng/dry g | |
| PCB114 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB118 | NA | 0.2 | 0.05 | 0.1 | ng/dry g | |
| PCB119 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB123 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB126 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB128 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB137 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB138 | NA | 1 | 0.05 | 0.1 | ng/dry g | |
| PCB141 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB149 | NA | 0.2 | 0.05 | 0.1 | ng/dry g | |
| PCB151 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB153 | NA | 0.3 | 0.05 | 0.1 | ng/dry g | |
| PCB156 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB157 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB158 | NA | 0.3 | 0.05 | 0.1 | ng/dry g | |
| PCB167 | NA | 0.3 | 0.05 | 0.1 | ng/dry g | |
| PCB168+132 | NA | 0.1 | 0.1 | 0.2 | ng/dry g | J |
| PCB169 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB170 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB174 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB177 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB180 | NA | 0.4 | 0.05 | 0.1 | ng/dry g | |



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CA ELAP #2769

PCB Congeners

ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|-------------|----------|--------|------|-----|----------|---------|
| PCB183 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB187 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB189 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB194 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB195 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB199(200) | NA | ND | 0.1 | 0.2 | ng/dry g | |
| PCB201 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB203 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB206 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB209 | NA | ND | 0.05 | 0.1 | ng/dry g | |

Sample ID: 21751-R1

B13-8399

Method: EPA 8270C

Matrix: Sediment

Batch ID: O-6005

Sampled: 12-Jul-13

13:55

Prepared: 24-Aug-13

Received: 13-Jul-13

Analyzed: 06-Sep-13

| | | | | | | |
|-------------|----|-----|------|-----|----------|--|
| PCB003 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB005 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB008 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB015 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB018 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB027 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB028 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB029 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB031 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB033 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB037 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB044 | NA | 0.9 | 0.05 | 0.1 | ng/dry g | |
| PCB049 | NA | 0.6 | 0.05 | 0.1 | ng/dry g | |
| PCB052 | NA | 1.4 | 0.05 | 0.1 | ng/dry g | |
| PCB056(060) | NA | 0.7 | 0.1 | 0.2 | ng/dry g | |
| PCB066 | NA | 0.9 | 0.05 | 0.1 | ng/dry g | |
| PCB070 | NA | 1.3 | 0.05 | 0.1 | ng/dry g | |
| PCB074 | NA | 0.6 | 0.05 | 0.1 | ng/dry g | |
| PCB077 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB081 | NA | ND | 0.05 | 0.1 | ng/dry g | |



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PCB Congeners

ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|------------|----------|--------|------|-----|----------|---------|
| PCB087 | NA | 1.3 | 0.05 | 0.1 | ng/dry g | |
| PCB095 | NA | 1.5 | 0.05 | 0.1 | ng/dry g | |
| PCB097 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB099 | NA | 1.4 | 0.05 | 0.1 | ng/dry g | |
| PCB101 | NA | 2.9 | 0.05 | 0.1 | ng/dry g | |
| PCB105 | NA | 1.1 | 0.05 | 0.1 | ng/dry g | |
| PCB110 | NA | 2.8 | 0.05 | 0.1 | ng/dry g | |
| PCB114 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB118 | NA | 3.1 | 0.05 | 0.1 | ng/dry g | |
| PCB119 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB123 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB126 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB128 | NA | 0.5 | 0.05 | 0.1 | ng/dry g | |
| PCB137 | NA | 0.6 | 0.05 | 0.1 | ng/dry g | |
| PCB138 | NA | 6.3 | 0.05 | 0.1 | ng/dry g | |
| PCB141 | NA | 0.6 | 0.05 | 0.1 | ng/dry g | |
| PCB149 | NA | 1.8 | 0.05 | 0.1 | ng/dry g | |
| PCB151 | NA | 0.4 | 0.05 | 0.1 | ng/dry g | |
| PCB153 | NA | 2.8 | 0.05 | 0.1 | ng/dry g | |
| PCB156 | NA | 2.5 | 0.05 | 0.1 | ng/dry g | |
| PCB157 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB158 | NA | 0.4 | 0.05 | 0.1 | ng/dry g | |
| PCB167 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB168+132 | NA | 0.9 | 0.1 | 0.2 | ng/dry g | |
| PCB169 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB170 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB174 | NA | 1.5 | 0.05 | 0.1 | ng/dry g | |
| PCB177 | NA | 1 | 0.05 | 0.1 | ng/dry g | |
| PCB180 | NA | 5.3 | 0.05 | 0.1 | ng/dry g | |
| PCB183 | NA | 0.4 | 0.05 | 0.1 | ng/dry g | |
| PCB187 | NA | 0.8 | 0.05 | 0.1 | ng/dry g | |
| PCB189 | NA | ND | 0.05 | 0.1 | ng/dry g | |



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PCB Congeners

ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|-------------|----------|--------|------|-----|----------|---------|
| PCB194 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB195 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB199(200) | NA | ND | 0.1 | 0.2 | ng/dry g | |
| PCB201 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB203 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB206 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB209 | NA | ND | 0.05 | 0.1 | ng/dry g | |

Sample ID: 21752-R1

B13-8384

Method: EPA 8270C

Matrix: Sediment

Batch ID: O-6005

Sampled: 12-Jul-13

9:13

Prepared: 24-Aug-13

Received: 13-Jul-13

Analyzed: 06-Sep-13

| | | | | | | |
|-------------|----|----|------|-----|----------|--|
| PCB003 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB005 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB008 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB015 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB018 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB027 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB028 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB029 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB031 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB033 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB037 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB044 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB049 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB052 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB056(060) | NA | ND | 0.1 | 0.2 | ng/dry g | |
| PCB066 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB070 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB074 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB077 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB081 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB087 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB095 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB097 | NA | ND | 0.05 | 0.1 | ng/dry g | |



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PCB Congeners

ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|-------------|----------|--------|------|-----|----------|---------|
| PCB099 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB101 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB105 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB110 | NA | 0.1 | 0.05 | 0.1 | ng/dry g | |
| PCB114 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB118 | NA | 0.2 | 0.05 | 0.1 | ng/dry g | |
| PCB119 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB123 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB126 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB128 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB137 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB138 | NA | 0.5 | 0.05 | 0.1 | ng/dry g | |
| PCB141 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB149 | NA | 0.1 | 0.05 | 0.1 | ng/dry g | |
| PCB151 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB153 | NA | 0.2 | 0.05 | 0.1 | ng/dry g | |
| PCB156 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB157 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB158 | NA | 0.2 | 0.05 | 0.1 | ng/dry g | |
| PCB167 | NA | 0.2 | 0.05 | 0.1 | ng/dry g | |
| PCB168+132 | NA | ND | 0.1 | 0.2 | ng/dry g | |
| PCB169 | NA | 2.6 | 0.05 | 0.1 | ng/dry g | |
| PCB170 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB174 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB177 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB180 | NA | 0.3 | 0.05 | 0.1 | ng/dry g | |
| PCB183 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB187 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB189 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB194 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB195 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB199(200) | NA | ND | 0.1 | 0.2 | ng/dry g | |



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PCB Congeners

ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|---------|----------|--------|------|-----|----------|---------|
| PCB201 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB203 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB206 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB209 | NA | ND | 0.05 | 0.1 | ng/dry g | |

Sample ID: 21753-R1

B13-8397

Method: EPA 8270C

Matrix: Sediment

Batch ID: O-6001

Sampled: 12-Jul-13

11:20

Received: 13-Jul-13

Prepared: 09-Aug-13

Analyzed: 30-Aug-13

| | | | | | | |
|-------------|----|-----|------|-----|----------|--|
| PCB003 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB005 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB008 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB015 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB018 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB027 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB028 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB029 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB031 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB033 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB037 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB044 | NA | 0.3 | 0.05 | 0.1 | ng/dry g | |
| PCB049 | NA | 1.1 | 0.05 | 0.1 | ng/dry g | |
| PCB052 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB056(060) | NA | ND | 0.1 | 0.2 | ng/dry g | |
| PCB066 | NA | 0.7 | 0.05 | 0.1 | ng/dry g | |
| PCB070 | NA | 0.3 | 0.05 | 0.1 | ng/dry g | |
| PCB074 | NA | 0.3 | 0.05 | 0.1 | ng/dry g | |
| PCB077 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB081 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB087 | NA | 0.3 | 0.05 | 0.1 | ng/dry g | |
| PCB095 | NA | 0.8 | 0.05 | 0.1 | ng/dry g | |
| PCB097 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB099 | NA | 0.8 | 0.05 | 0.1 | ng/dry g | |
| PCB101 | NA | 1.4 | 0.05 | 0.1 | ng/dry g | |
| PCB105 | NA | ND | 0.05 | 0.1 | ng/dry g | |



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CA ELAP #2769

PCB Congeners

ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|-------------|----------|--------|------|-----|----------|---------|
| PCB110 | NA | 0.8 | 0.05 | 0.1 | ng/dry g | |
| PCB114 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB118 | NA | 0.7 | 0.05 | 0.1 | ng/dry g | |
| PCB119 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB123 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB126 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB128 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB137 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB138 | NA | 1.8 | 0.05 | 0.1 | ng/dry g | |
| PCB141 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB149 | NA | 1.4 | 0.05 | 0.1 | ng/dry g | |
| PCB151 | NA | 0.4 | 0.05 | 0.1 | ng/dry g | |
| PCB153 | NA | 2.3 | 0.05 | 0.1 | ng/dry g | |
| PCB156 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB157 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB158 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB167 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB168+132 | NA | ND | 0.1 | 0.2 | ng/dry g | |
| PCB169 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB170 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB174 | NA | 0.8 | 0.05 | 0.1 | ng/dry g | |
| PCB177 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB180 | NA | 1.5 | 0.05 | 0.1 | ng/dry g | |
| PCB183 | NA | 0.5 | 0.05 | 0.1 | ng/dry g | |
| PCB187 | NA | 1 | 0.05 | 0.1 | ng/dry g | |
| PCB189 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB194 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB195 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB199(200) | NA | ND | 0.1 | 0.2 | ng/dry g | |
| PCB201 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB203 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB206 | NA | ND | 0.05 | 0.1 | ng/dry g | |



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CA ELAP #2769

PCB Congeners

ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|---|----------|--------|------|-----|----------|---------|
| PCB209 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Sample ID: 21754-R1 B13-8396 Matrix: Sediment Sampled: 12-Jul-13 9:58 Received: 13-Jul-13 Method: EPA 8270C Batch ID: O-6003 Prepared: 15-Aug-13 Analyzed: 30-Aug-13 | | | | | | |
| PCB003 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB005 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB008 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB015 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB018 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB027 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB028 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB029 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB031 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB033 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB037 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB044 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB049 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB052 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB056(060) | NA | ND | 0.1 | 0.2 | ng/dry g | |
| PCB066 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB070 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB074 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB077 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB081 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB087 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB095 | NA | 0.2 | 0.05 | 0.1 | ng/dry g | |
| PCB097 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB099 | NA | 0.2 | 0.05 | 0.1 | ng/dry g | |
| PCB101 | NA | 0.4 | 0.05 | 0.1 | ng/dry g | |
| PCB105 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB110 | NA | 0.3 | 0.05 | 0.1 | ng/dry g | |
| PCB114 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB118 | NA | 0.4 | 0.05 | 0.1 | ng/dry g | |



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CA ELAP #2769

PCB Congeners

ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|-------------|----------|--------|------|-----|----------|---------|
| PCB119 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB123 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB126 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB128 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB137 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB138 | NA | 0.4 | 0.05 | 0.1 | ng/dry g | |
| PCB141 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB149 | NA | 0.3 | 0.05 | 0.1 | ng/dry g | |
| PCB151 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB153 | NA | 0.4 | 0.05 | 0.1 | ng/dry g | |
| PCB156 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB157 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB158 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB167 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB168+132 | NA | ND | 0.1 | 0.2 | ng/dry g | |
| PCB169 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB170 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB174 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB177 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB180 | NA | 0.2 | 0.05 | 0.1 | ng/dry g | |
| PCB183 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB187 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB189 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB194 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB195 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB199(200) | NA | ND | 0.1 | 0.2 | ng/dry g | |
| PCB201 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB203 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB206 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB209 | NA | ND | 0.05 | 0.1 | ng/dry g | |

Sample ID: 21755-R1

B13-8340

Method: EPA 8270C

Matrix: Sediment

Batch ID: O-6003

Sampled: 12-Jul-13

8:19

Prepared: 15-Aug-13

Received: 13-Jul-13

Analyzed: 30-Aug-13

PHYSIS Project ID: 1307001-001

Client: AMEC

Project: POLA/POLB Harbor Toxics TMDL and Bight '13



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CA ELAP #2769

PCB Congeners

ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|-------------|----------|--------|------|-----|----------|---------|
| PCB003 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB005 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB008 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB015 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB018 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB027 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB028 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB029 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB031 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB033 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB037 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB044 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB049 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB052 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB056(060) | NA | ND | 0.1 | 0.2 | ng/dry g | |
| PCB066 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB070 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB074 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB077 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB081 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB087 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB095 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB097 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB099 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB101 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB105 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB110 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB114 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB118 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB119 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB123 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB126 | NA | ND | 0.05 | 0.1 | ng/dry g | |



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PCB Congeners

ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|-------------|----------|--------|------|-----|----------|---------|
| PCB128 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB137 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB138 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB141 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB149 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB151 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB153 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB156 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB157 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB158 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB167 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB168+132 | NA | ND | 0.1 | 0.2 | ng/dry g | |
| PCB169 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB170 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB174 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB177 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB180 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB183 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB187 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB189 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB194 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB195 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB199(200) | NA | ND | 0.1 | 0.2 | ng/dry g | |
| PCB201 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB203 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB206 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB209 | NA | ND | 0.05 | 0.1 | ng/dry g | |

Sample ID: 21756-R1

B13-8347

Method: EPA 8270C

Matrix: Sediment

Batch ID: O-6003

Sampled: 12-Jul-13

15:41

Received: 13-Jul-13

Prepared: 15-Aug-13

Analyzed: 30-Aug-13

| | | | | | | |
|--------|----|----|------|-----|----------|--|
| PCB003 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB005 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB008 | NA | ND | 0.05 | 0.1 | ng/dry g | |

PHYSIS Project ID: 1307001-001

Client: AMEC

Project: POLA/POLB Harbor Toxics TMDL and Bight '13



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CA ELAP #2769

PCB Congeners

ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|-------------|----------|--------|------|-----|----------|---------|
| PCB015 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB018 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB027 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB028 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB029 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB031 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB033 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB037 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB044 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB049 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB052 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB056(060) | NA | ND | 0.1 | 0.2 | ng/dry g | |
| PCB066 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB070 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB074 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB077 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB081 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB087 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB095 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB097 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB099 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB101 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB105 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB110 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB114 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB118 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB119 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB123 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB126 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB128 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB137 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB138 | NA | ND | 0.05 | 0.1 | ng/dry g | |



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PCB Congeners

ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|-------------|----------|--------|------|-----|----------|---------|
| PCB141 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB149 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB151 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB153 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB156 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB157 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB158 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB167 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB168+132 | NA | ND | 0.1 | 0.2 | ng/dry g | |
| PCB169 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB170 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB174 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB177 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB180 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB183 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB187 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB189 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB194 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB195 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB199(200) | NA | ND | 0.1 | 0.2 | ng/dry g | |
| PCB201 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB203 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB206 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB209 | NA | ND | 0.05 | 0.1 | ng/dry g | |

Sample ID: 21757-R1

TMDL6-CP

Method: EPA 8270C

Matrix: Sediment

Batch ID: O-6003

Sampled: 12-Jul-13

15:41

Received: 13-Jul-13

Prepared: 15-Aug-13

Analyzed: 30-Aug-13

| | | | | | | |
|--------|----|----|------|-----|----------|--|
| PCB003 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB005 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB008 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB015 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB018 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB027 | NA | ND | 0.05 | 0.1 | ng/dry g | |

PHYSIS Project ID: 1307001-001

Client: AMEC

Project: POLA/POLB Harbor Toxics TMDL and Bight '13



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PCB Congeners

ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|-------------|----------|--------|------|-----|----------|---------|
| PCB028 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB029 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB031 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB033 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB037 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB044 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB049 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB052 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB056(060) | NA | ND | 0.1 | 0.2 | ng/dry g | |
| PCB066 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB070 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB074 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB077 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB081 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB087 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB095 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB097 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB099 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB101 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB105 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB110 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB114 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB118 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB119 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB123 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB126 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB128 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB137 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB138 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB141 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB149 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB151 | NA | ND | 0.05 | 0.1 | ng/dry g | |



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PCB Congeners

ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|-------------|----------|--------|------|-----|----------|---------|
| PCB153 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB156 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB157 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB158 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB167 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB168+132 | NA | ND | 0.1 | 0.2 | ng/dry g | |
| PCB169 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB170 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB174 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB177 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB180 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB183 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB187 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB189 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB194 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB195 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB199(200) | NA | ND | 0.1 | 0.2 | ng/dry g | |
| PCB201 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB203 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB206 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB209 | NA | ND | 0.05 | 0.1 | ng/dry g | |

Sample ID: 21758-R1

TMDL4-CS

Method: EPA 8270C

Matrix: Sediment

Batch ID: O-6003

Sampled: 12-Jul-13

12:20

Received: 13-Jul-13

Prepared: 15-Aug-13

Analyzed: 30-Aug-13

| | | | | | | |
|--------|----|----|------|-----|----------|--|
| PCB003 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB005 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB008 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB015 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB018 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB027 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB028 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB029 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB031 | NA | ND | 0.05 | 0.1 | ng/dry g | |



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PCB Congeners

ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|-------------|----------|--------|------|-----|----------|---------|
| PCB033 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB037 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB044 | NA | 0.8 | 0.05 | 0.1 | ng/dry g | |
| PCB049 | NA | 1.3 | 0.05 | 0.1 | ng/dry g | |
| PCB052 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB056(060) | NA | ND | 0.1 | 0.2 | ng/dry g | |
| PCB066 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB070 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB074 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB077 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB081 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB087 | NA | 0.4 | 0.05 | 0.1 | ng/dry g | |
| PCB095 | NA | 0.8 | 0.05 | 0.1 | ng/dry g | |
| PCB097 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB099 | NA | 0.6 | 0.05 | 0.1 | ng/dry g | |
| PCB101 | NA | 1.1 | 0.05 | 0.1 | ng/dry g | |
| PCB105 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB110 | NA | 0.8 | 0.05 | 0.1 | ng/dry g | |
| PCB114 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB118 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB119 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB123 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB126 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB128 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB137 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB138 | NA | 1 | 0.05 | 0.1 | ng/dry g | |
| PCB141 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB149 | NA | 1.5 | 0.05 | 0.1 | ng/dry g | |
| PCB151 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB153 | NA | 1.6 | 0.05 | 0.1 | ng/dry g | |
| PCB156 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB157 | NA | ND | 0.05 | 0.1 | ng/dry g | |



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PCB Congeners

ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|-------------|----------|--------|------|-----|----------|---------|
| PCB158 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB167 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB168+132 | NA | ND | 0.1 | 0.2 | ng/dry g | |
| PCB169 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB170 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB174 | NA | 0.7 | 0.05 | 0.1 | ng/dry g | |
| PCB177 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB180 | NA | 1.4 | 0.05 | 0.1 | ng/dry g | |
| PCB183 | NA | 0.6 | 0.05 | 0.1 | ng/dry g | |
| PCB187 | NA | 1.2 | 0.05 | 0.1 | ng/dry g | |
| PCB189 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB194 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB195 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB199(200) | NA | ND | 0.1 | 0.2 | ng/dry g | |
| PCB201 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB203 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB206 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB209 | NA | ND | 0.05 | 0.1 | ng/dry g | |

Sample ID: 21759-R1

TMDL3-TB

Method: EPA 8270C

Matrix: Sediment

Batch ID: O-6003

Sampled: 12-Jul-13

15:41

Received: 13-Jul-13

Prepared: 15-Aug-13

Analyzed: 30-Aug-13

| | | | | | | |
|--------|----|----|------|-----|----------|--|
| PCB003 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB005 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB008 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB015 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB018 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB027 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB028 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB029 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB031 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB033 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB037 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB044 | NA | ND | 0.05 | 0.1 | ng/dry g | |

PHYSIS Project ID: 1307001-001

Client: AMEC

Project: POLA/POLB Harbor Toxics TMDL and Bight '13



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PCB Congeners

ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|-------------|----------|--------|------|-----|----------|---------|
| PCB049 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB052 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB056(060) | NA | ND | 0.1 | 0.2 | ng/dry g | |
| PCB066 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB070 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB074 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB077 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB081 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB087 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB095 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB097 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB099 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB101 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB105 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB110 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB114 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB118 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB119 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB123 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB126 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB128 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB137 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB138 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB141 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB149 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB151 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB153 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB156 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB157 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB158 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB167 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB168+132 | NA | ND | 0.1 | 0.2 | ng/dry g | |



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CA ELAP #2769

PCB Congeners

ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|-------------|----------|--------|------|-----|----------|---------|
| PCB169 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB170 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB174 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB177 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB180 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB183 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB187 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB189 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB194 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB195 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB199(200) | NA | ND | 0.1 | 0.2 | ng/dry g | |
| PCB201 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB203 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB206 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB209 | NA | ND | 0.05 | 0.1 | ng/dry g | |

Sample ID: 21760-R1

B13-8365

Method: EPA 8270C

Matrix: Sediment

Batch ID: O-6003

Sampled: 13-Jul-13

8:37

Received: 13-Jul-13

Prepared: 15-Aug-13

Analyzed: 30-Aug-13

| | | | | | | |
|-------------|----|----|------|-----|----------|--|
| PCB003 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB005 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB008 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB015 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB018 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB027 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB028 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB029 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB031 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB033 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB037 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB044 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB049 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB052 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB056(060) | NA | ND | 0.1 | 0.2 | ng/dry g | |

PHYSIS Project ID: 1307001-001

Client: AMEC

Project: POLA/POLB Harbor Toxics TMDL and Bight '13



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CA ELAP #2769

PCB Congeners

ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|------------|----------|--------|------|-----|----------|---------|
| PCB066 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB070 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB074 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB077 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB081 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB087 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB095 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB097 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB099 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB101 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB105 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB110 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB114 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB118 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB119 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB123 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB126 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB128 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB137 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB138 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB141 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB149 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB151 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB153 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB156 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB157 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB158 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB167 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB168+132 | NA | ND | 0.1 | 0.2 | ng/dry g | |
| PCB169 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB170 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB174 | NA | ND | 0.05 | 0.1 | ng/dry g | |



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PCB Congeners

ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|-------------|----------|--------|------|-----|----------|---------|
| PCB177 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB180 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB183 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB187 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB189 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB194 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB195 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB199(200) | NA | ND | 0.1 | 0.2 | ng/dry g | |
| PCB201 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB203 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB206 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB209 | NA | ND | 0.05 | 0.1 | ng/dry g | |

Sample ID: 21761-R1

B13-8318

Method: EPA 8270C

Matrix: Sediment

Batch ID: O-6003

Sampled: 13-Jul-13

10:57

Received: 13-Jul-13

Prepared: 15-Aug-13

Analyzed: 30-Aug-13

| | | | | | | |
|-------------|----|----|------|-----|----------|--|
| PCB003 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB005 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB008 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB015 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB018 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB027 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB028 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB029 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB031 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB033 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB037 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB044 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB049 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB052 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB056(060) | NA | ND | 0.1 | 0.2 | ng/dry g | |
| PCB066 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB070 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB074 | NA | ND | 0.05 | 0.1 | ng/dry g | |

PHYSIS Project ID: 1307001-001

Client: AMEC

Project: POLA/POLB Harbor Toxics TMDL and Bight '13



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PCB Congeners

ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|------------|----------|--------|------|-----|----------|---------|
| PCB077 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB081 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB087 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB095 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB097 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB099 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB101 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB105 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB110 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB114 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB118 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB119 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB123 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB126 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB128 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB137 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB138 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB141 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB149 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB151 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB153 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB156 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB157 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB158 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB167 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB168+132 | NA | ND | 0.1 | 0.2 | ng/dry g | |
| PCB169 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB170 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB174 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB177 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB180 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB183 | NA | ND | 0.05 | 0.1 | ng/dry g | |



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PCB Congeners

ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|-------------|----------|--------|------|-----|----------|---------|
| PCB187 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB189 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB194 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB195 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB199(200) | NA | ND | 0.1 | 0.2 | ng/dry g | |
| PCB201 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB203 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB206 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB209 | NA | ND | 0.05 | 0.1 | ng/dry g | |

Sample ID: 21762-R1

B13-8322

Method: EPA 8270C

Matrix: Sediment

Batch ID: O-6003

Sampled: 13-Jul-13

10:11

Prepared: 15-Aug-13

Received: 13-Jul-13

Analyzed: 30-Aug-13

| | | | | | | |
|-------------|----|----|------|-----|----------|--|
| PCB003 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB005 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB008 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB015 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB018 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB027 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB028 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB029 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB031 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB033 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB037 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB044 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB049 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB052 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB056(060) | NA | ND | 0.1 | 0.2 | ng/dry g | |
| PCB066 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB070 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB074 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB077 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB081 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB087 | NA | ND | 0.05 | 0.1 | ng/dry g | |



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CA ELAP #2769

PCB Congeners

ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|------------|----------|--------|------|-----|----------|---------|
| PCB095 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB097 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB099 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB101 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB105 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB110 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB114 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB118 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB119 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB123 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB126 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB128 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB137 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB138 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB141 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB149 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB151 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB153 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB156 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB157 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB158 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB167 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB168+132 | NA | ND | 0.1 | 0.2 | ng/dry g | |
| PCB169 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB170 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB174 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB177 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB180 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB183 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB187 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB189 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB194 | NA | ND | 0.05 | 0.1 | ng/dry g | |



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PCB Congeners

ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|-------------|----------|--------|------|-----|----------|---------|
| PCB195 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB199(200) | NA | ND | 0.1 | 0.2 | ng/dry g | |
| PCB201 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB203 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB206 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB209 | NA | ND | 0.05 | 0.1 | ng/dry g | |

Sample ID: 21763-R1

B13-8333

Method: EPA 8270C

Matrix: Sediment

Batch ID: O-6005

Sampled: 13-Jul-13

7:43

Prepared: 24-Aug-13

Received: 13-Jul-13

Analyzed: 06-Sep-13

| | | | | | | |
|-------------|----|----|------|-----|----------|--|
| PCB003 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB005 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB008 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB015 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB018 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB027 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB028 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB029 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB031 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB033 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB037 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB044 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB049 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB052 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB056(060) | NA | ND | 0.1 | 0.2 | ng/dry g | |
| PCB066 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB070 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB074 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB077 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB081 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB087 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB095 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB097 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB099 | NA | ND | 0.05 | 0.1 | ng/dry g | |



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CA ELAP #2769

PCB Congeners

ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|-------------|----------|--------|------|-----|----------|---------|
| PCB101 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB105 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB110 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB114 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB118 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB119 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB123 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB126 | NA | 0.7 | 0.05 | 0.1 | ng/dry g | |
| PCB128 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB137 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB138 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB141 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB149 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB151 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB153 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB156 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB157 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB158 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB167 | NA | 0.2 | 0.05 | 0.1 | ng/dry g | |
| PCB168+132 | NA | ND | 0.1 | 0.2 | ng/dry g | |
| PCB169 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB170 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB174 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB177 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB180 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB183 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB187 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB189 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB194 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB195 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB199(200) | NA | ND | 0.1 | 0.2 | ng/dry g | |
| PCB201 | NA | ND | 0.05 | 0.1 | ng/dry g | |



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CA ELAP #2769

PCB Congeners

ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|---------|----------|--------|------|-----|----------|---------|
| PCB203 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB206 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB209 | NA | ND | 0.05 | 0.1 | ng/dry g | |

Sample ID: 21764-R1

B13-8356

Method: EPA 8270C

Matrix: Sediment

Batch ID: O-6005

Sampled: 13-Jul-13

9:22

Received: 13-Jul-13

Prepared: 24-Aug-13

Analyzed: 06-Sep-13

| | | | | | | |
|-------------|----|-----|------|-----|----------|--|
| PCB003 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB005 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB008 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB015 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB018 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB027 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB028 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB029 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB031 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB033 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB037 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB044 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB049 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB052 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB056(060) | NA | ND | 0.1 | 0.2 | ng/dry g | |
| PCB066 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB070 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB074 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB077 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB081 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB087 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB095 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB097 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB099 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB101 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB105 | NA | 0.1 | 0.05 | 0.1 | ng/dry g | |
| PCB110 | NA | 0.2 | 0.05 | 0.1 | ng/dry g | |



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PCB Congeners

ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|-------------|----------|--------|------|-----|----------|---------|
| PCB114 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB118 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB119 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB123 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB126 | NA | 1.2 | 0.05 | 0.1 | ng/dry g | |
| PCB128 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB137 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB138 | NA | 0.5 | 0.05 | 0.1 | ng/dry g | |
| PCB141 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB149 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB151 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB153 | NA | 0.1 | 0.05 | 0.1 | ng/dry g | |
| PCB156 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB157 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB158 | NA | 0.1 | 0.05 | 0.1 | ng/dry g | |
| PCB167 | NA | 0.2 | 0.05 | 0.1 | ng/dry g | |
| PCB168+132 | NA | ND | 0.1 | 0.2 | ng/dry g | |
| PCB169 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB170 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB174 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB177 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB180 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB183 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB187 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB189 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB194 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB195 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB199(200) | NA | ND | 0.1 | 0.2 | ng/dry g | |
| PCB201 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB203 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB206 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PCB209 | NA | ND | 0.05 | 0.1 | ng/dry g | |



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CA ELAP #2769

PolyBrominated Diphenyl Ethers

ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|--|----------|--------|------|-----|------------|---------|
| Sample ID: 21733-R1 B13-8382 Matrix: Sediment Sampled: 10-Jul-13 11:04 Received: 13-Jul-13 Method: EPA 8270C-NCI Batch ID: O-6001 Prepared: 09-Aug-13 Analyzed: 24-Aug-13 | | | | | | |
| (DFPBDE) | NA | 104 | | | % Recovery | |
| (FTBDE) | NA | 113 | | | % Recovery | |
| PBDE017 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE028 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE047 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE049 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE066 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE071 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE085 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE099 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE100 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE138 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE153 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE154 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE183 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE190 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE209 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| Sample ID: 21734-R1 B13-8374 Matrix: Sediment Sampled: 10-Jul-13 14:28 Received: 13-Jul-13 Method: EPA 8270C-NCI Batch ID: O-6001 Prepared: 09-Aug-13 Analyzed: 24-Aug-13 | | | | | | |
| (DFPBDE) | NA | 99 | | | % Recovery | |
| (FTBDE) | NA | 110 | | | % Recovery | |
| PBDE017 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE028 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE047 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE049 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE066 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE071 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE085 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE099 | NA | ND | 0.05 | 0.1 | ng/dry g | |



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CA ELAP #2769

PolyBrominated Diphenyl Ethers

ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|---------|----------|--------|------|-----|----------|---------|
| PBDE100 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE138 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE153 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE154 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE183 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE190 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE209 | NA | ND | 0.05 | 0.1 | ng/dry g | |

Sample ID: 21735-R1

B13-8371

Method: EPA 8270C-NCI

Matrix: Sediment

Batch ID: O-6001

Sampled: 10-Jul-13

12:03

Prepared: 09-Aug-13

Received: 13-Jul-13

Analyzed: 24-Aug-13

| | | | | | | |
|----------|----|-----|------|-----|------------|--|
| (DFPBDE) | NA | 101 | | | % Recovery | |
| (FTBDE) | NA | 111 | | | % Recovery | |
| PBDE017 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE028 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE047 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE049 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE066 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE071 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE085 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE099 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE100 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE138 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE153 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE154 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE183 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE190 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE209 | NA | ND | 0.05 | 0.1 | ng/dry g | |

Sample ID: 21736-R1

B13-8363

Method: EPA 8270C-NCI

Matrix: Sediment

Batch ID: O-6001

Sampled: 10-Jul-13

13:38

Prepared: 09-Aug-13

Received: 13-Jul-13

Analyzed: 24-Aug-13

| | | | | | | |
|----------|----|-----|------|-----|------------|--|
| (DFPBDE) | NA | 102 | | | % Recovery | |
| (FTBDE) | NA | 112 | | | % Recovery | |
| PBDE017 | NA | ND | 0.05 | 0.1 | ng/dry g | |



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CA ELAP #2769

PolyBrominated Diphenyl Ethers

ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|---------|----------|--------|------|-----|----------|---------|
| PBDE028 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE047 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE049 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE066 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE071 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE085 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE099 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE100 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE138 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE153 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE154 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE183 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE190 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE209 | NA | ND | 0.05 | 0.1 | ng/dry g | |

Sample ID: 21737-R1

B13-8360

Method: EPA 8270C-NCI

Matrix: Sediment

Batch ID: O-6001

Sampled: 10-Jul-13

15:30

Received: 13-Jul-13

Prepared: 09-Aug-13

Analyzed: 24-Aug-13

| | | | | | | |
|----------|----|-----|------|-----|------------|--|
| (DFPBDE) | NA | 107 | | | % Recovery | |
| (FTBDE) | NA | 110 | | | % Recovery | |
| PBDE017 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE028 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE047 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE049 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE066 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE071 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE085 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE099 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE100 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE138 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE153 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE154 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE183 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE190 | NA | ND | 0.05 | 0.1 | ng/dry g | |

PHYSIS Project ID: 1307001-001

Client: AMEC

Project: POLA/POLB Harbor Toxics TMDL and Bight '13



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CA ELAP #2769

PolyBrominated Diphenyl Ethers

ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|---------|----------|--------|------|-----|----------|---------|
| PBDE209 | NA | ND | 0.05 | 0.1 | ng/dry g | |

Sample ID: 21738-R1

B13-8349

Method: EPA 8270C-NCI

Matrix: Sediment

Batch ID: O-6001

Sampled: 10-Jul-13

9:51

Prepared: 09-Aug-13

Received: 13-Jul-13

Analyzed: 24-Aug-13

| | | | | | | |
|----------|----|-----|------|-----|------------|--|
| (DFPBDE) | NA | 92 | | | % Recovery | |
| (FTBDE) | NA | 111 | | | % Recovery | |
| PBDE017 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE028 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE047 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE049 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE066 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE071 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE085 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE099 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE100 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE138 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE153 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE154 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE183 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE190 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE209 | NA | ND | 0.05 | 0.1 | ng/dry g | |

Sample ID: 21739-R1

B13-8326

Method: EPA 8270C-NCI

Matrix: Sediment

Batch ID: O-6001

Sampled: 10-Jul-13

8:28

Prepared: 09-Aug-13

Received: 13-Jul-13

Analyzed: 24-Aug-13

| | | | | | | |
|----------|----|-----|------|-----|------------|--|
| (DFPBDE) | NA | 89 | | | % Recovery | |
| (FTBDE) | NA | 104 | | | % Recovery | |
| PBDE017 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE028 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE047 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE049 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE066 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE071 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE085 | NA | ND | 0.05 | 0.1 | ng/dry g | |



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CA ELAP #2769

PolyBrominated Diphenyl Ethers

ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|---------|----------|--------|------|-----|----------|---------|
| PBDE099 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE100 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE138 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE153 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE154 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE183 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE190 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE209 | NA | ND | 0.05 | 0.1 | ng/dry g | |

Sample ID: 21740-R1

B13-8367

Method: EPA 8270C-NCI

Matrix: Sediment

Batch ID: O-6001

Sampled: 11-Jul-13

14:10

Prepared: 09-Aug-13

Received: 13-Jul-13

Analyzed: 24-Aug-13

| | | | | | | |
|----------|----|----|------|-----|------------|--|
| (DFPBDE) | NA | 94 | | | % Recovery | |
| (FTBDE) | NA | 95 | | | % Recovery | |
| PBDE017 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE028 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE047 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE049 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE066 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE071 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE085 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE099 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE100 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE138 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE153 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE154 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE183 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE190 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE209 | NA | ND | 0.05 | 0.1 | ng/dry g | |

Sample ID: 21741-R1

B13-8302

Method: EPA 8270C-NCI

Matrix: Sediment

Batch ID: O-6001

Sampled: 11-Jul-13

9:29

Prepared: 09-Aug-13

Received: 13-Jul-13

Analyzed: 24-Aug-13

| | | | | | | |
|----------|----|-----|--|--|------------|--|
| (DFPBDE) | NA | 88 | | | % Recovery | |
| (FTBDE) | NA | 104 | | | % Recovery | |



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CA ELAP #2769

PolyBrominated Diphenyl Ethers

ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|---------|----------|--------|------|-----|----------|---------|
| PBDE017 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE028 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE047 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE049 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE066 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE071 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE085 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE099 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE100 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE138 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE153 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE154 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE183 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE190 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE209 | NA | ND | 0.05 | 0.1 | ng/dry g | |

Sample ID: 21742-R1

B13-8304

Method: EPA 8270C-NCI

Matrix: Sediment

Batch ID: O-6001

Sampled: 11-Jul-13

16:24

Received: 13-Jul-13

Prepared: 09-Aug-13

Analyzed: 24-Aug-13

| | | | | | | |
|----------|----|-----|------|-----|------------|--|
| (DFPBDE) | NA | 89 | | | % Recovery | |
| (FTBDE) | NA | 103 | | | % Recovery | |
| PBDE017 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE028 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE047 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE049 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE066 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE071 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE085 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE099 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE100 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE138 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE153 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE154 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE183 | NA | ND | 0.05 | 0.1 | ng/dry g | |



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CA ELAP #2769

PolyBrominated Diphenyl Ethers

ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|---------|----------|--------|------|-----|----------|---------|
| PBDE190 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE209 | NA | ND | 0.05 | 0.1 | ng/dry g | |

Sample ID: 21743-R1

B13-8306

Method: EPA 8270C-NCI

Matrix: Sediment

Batch ID: O-6003

Sampled: 11-Jul-13

13:00

Prepared: 15-Aug-13

Received: 13-Jul-13

Analyzed: 26-Aug-13

| | | | | | | |
|----------|----|-----|------|-----|------------|--|
| (DFPBDE) | NA | 80 | | | % Recovery | |
| (FTBDE) | NA | 107 | | | % Recovery | |
| PBDE017 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE028 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE047 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE049 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE066 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE071 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE085 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE099 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE100 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE138 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE153 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE154 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE183 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE190 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE209 | NA | ND | 0.05 | 0.1 | ng/dry g | |

Sample ID: 21744-R1

B13-8308

Method: EPA 8270C-NCI

Matrix: Sediment

Batch ID: O-6003

Sampled: 11-Jul-13

17:06

Prepared: 15-Aug-13

Received: 13-Jul-13

Analyzed: 26-Aug-13

| | | | | | | |
|----------|----|-----|------|-----|------------|--|
| (DFPBDE) | NA | 94 | | | % Recovery | |
| (FTBDE) | NA | 107 | | | % Recovery | |
| PBDE017 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE028 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE047 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE049 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE066 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE071 | NA | ND | 0.05 | 0.1 | ng/dry g | |



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CA ELAP #2769

PolyBrominated Diphenyl Ethers

ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|---------|----------|--------|------|-----|----------|---------|
| PBDE085 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE099 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE100 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE138 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE153 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE154 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE183 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE190 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE209 | NA | ND | 0.05 | 0.1 | ng/dry g | |

Sample ID: 21745-R1

B13-8310

Method: EPA 8270C-NCI

Matrix: Sediment

Batch ID: O-6005

Sampled: 11-Jul-13

17:51

Received: 13-Jul-13

Prepared: 24-Aug-13

Analyzed: 06-Sep-13

| | | | | | | |
|----------|----|-----|------|-----|------------|--|
| (DFPBDE) | NA | 107 | | | % Recovery | |
| (FTBDE) | NA | 110 | | | % Recovery | |
| PBDE017 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE028 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE047 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE049 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE066 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE071 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE085 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE099 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE100 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE138 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE153 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE154 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE183 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE190 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE209 | NA | ND | 0.05 | 0.1 | ng/dry g | |

Sample ID: 21746-R1

B13-8316

Method: EPA 8270C-NCI

Matrix: Sediment

Batch ID: O-6005

Sampled: 11-Jul-13

10:23

Received: 13-Jul-13

Prepared: 24-Aug-13

Analyzed: 06-Sep-13

| | | | | | | |
|----------|----|-----|--|--|------------|--|
| (DFPBDE) | NA | 122 | | | % Recovery | |
|----------|----|-----|--|--|------------|--|



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CA ELAP #2769

PolyBrominated Diphenyl Ethers

ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|---------|----------|--------|------|-----|------------|---------|
| (FTBDE) | NA | 113 | | | % Recovery | |
| PBDE017 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE028 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE047 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE049 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE066 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE071 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE085 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE099 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE100 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE138 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE153 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE154 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE183 | NA | 0.1 | 0.05 | 0.1 | ng/dry g | |
| PBDE190 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE209 | NA | ND | 0.05 | 0.1 | ng/dry g | |

Sample ID: 21750-R1

B13-8401

Method: EPA 8270C-NCI

Matrix: Sediment

Batch ID: O-6005

Sampled: 12-Jul-13

14:42

Received: 13-Jul-13

Prepared: 24-Aug-13

Analyzed: 06-Sep-13

| | | | | | | |
|----------|----|-----|------|-----|------------|--|
| (DFPBDE) | NA | 113 | | | % Recovery | |
| (FTBDE) | NA | 109 | | | % Recovery | |
| PBDE017 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE028 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE047 | NA | 0.1 | 0.05 | 0.1 | ng/dry g | |
| PBDE049 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE066 | NA | 0.3 | 0.05 | 0.1 | ng/dry g | |
| PBDE071 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE085 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE099 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE100 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE138 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE153 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE154 | NA | ND | 0.05 | 0.1 | ng/dry g | |



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CA ELAP #2769

PolyBrominated Diphenyl Ethers

ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|---------|----------|--------|------|-----|----------|---------|
| PBDE183 | NA | 0.4 | 0.05 | 0.1 | ng/dry g | |
| PBDE190 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE209 | NA | ND | 0.05 | 0.1 | ng/dry g | |

Sample ID: 21751-R1

B13-8399

Method: EPA 8270C-NCI

Matrix: Sediment

Batch ID: O-6005

Sampled: 12-Jul-13

13:55

Received: 13-Jul-13

Prepared: 24-Aug-13

Analyzed: 06-Sep-13

| | | | | | | |
|----------|----|-----|------|-----|------------|--|
| (DFPBDE) | NA | 107 | | | % Recovery | |
| (FTBDE) | NA | 106 | | | % Recovery | |
| PBDE017 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE028 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE047 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE049 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE066 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE071 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE085 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE099 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE100 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE138 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE153 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE154 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE183 | NA | 0.3 | 0.05 | 0.1 | ng/dry g | |
| PBDE190 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE209 | NA | ND | 0.05 | 0.1 | ng/dry g | |

Sample ID: 21752-R1

B13-8384

Method: EPA 8270C-NCI

Matrix: Sediment

Batch ID: O-6005

Sampled: 12-Jul-13

9:13

Received: 13-Jul-13

Prepared: 24-Aug-13

Analyzed: 06-Sep-13

| | | | | | | |
|----------|----|-----|------|-----|------------|--|
| (DFPBDE) | NA | 133 | | | % Recovery | |
| (FTBDE) | NA | 112 | | | % Recovery | |
| PBDE017 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE028 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE047 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE049 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE066 | NA | ND | 0.05 | 0.1 | ng/dry g | |



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CA ELAP #2769

PolyBrominated Diphenyl Ethers

ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|---------|----------|--------|------|-----|----------|---------|
| PBDE071 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE085 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE099 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE100 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE138 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE153 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE154 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE183 | NA | 0.1 | 0.05 | 0.1 | ng/dry g | |
| PBDE190 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE209 | NA | ND | 0.05 | 0.1 | ng/dry g | |

Sample ID: 21753-R1

B13-8397

Method: EPA 8270C-NCI

Matrix: Sediment

Batch ID: O-6001

Sampled: 12-Jul-13

11:20

Prepared: 09-Aug-13

Received: 13-Jul-13

Analyzed: 24-Aug-13

| | | | | | | |
|----------|----|-----|------|-----|------------|--|
| (DFPBDE) | NA | 93 | | | % Recovery | |
| (FTBDE) | NA | 125 | | | % Recovery | |
| PBDE017 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE028 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE047 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE049 | NA | 1 | 0.05 | 0.1 | ng/dry g | |
| PBDE066 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE071 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE085 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE099 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE100 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE138 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE153 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE154 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE183 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE190 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE209 | NA | ND | 0.05 | 0.1 | ng/dry g | |

Sample ID: 21754-R1

B13-8396

Method: EPA 8270C-NCI

Matrix: Sediment

Batch ID: O-6003

Sampled: 12-Jul-13

9:58

Prepared: 15-Aug-13

Received: 13-Jul-13

Analyzed: 26-Aug-13



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CA ELAP #2769

PolyBrominated Diphenyl Ethers

ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|----------|----------|--------|------|-----|------------|---------|
| (DFPBDE) | NA | 97 | | | % Recovery | |
| (FTBDE) | NA | 111 | | | % Recovery | |
| PBDE017 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE028 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE047 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE049 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE066 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE071 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE085 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE099 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE100 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE138 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE153 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE154 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE183 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE190 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE209 | NA | ND | 0.05 | 0.1 | ng/dry g | |

Sample ID: 21755-R1

B13-8340

Method: EPA 8270C-NCI

Matrix: Sediment

Batch ID: O-6003

Sampled: 12-Jul-13

8:19

Received: 13-Jul-13

Prepared: 15-Aug-13

Analyzed: 26-Aug-13

| | | | | | | |
|----------|----|-----|------|-----|------------|--|
| (DFPBDE) | NA | 100 | | | % Recovery | |
| (FTBDE) | NA | 112 | | | % Recovery | |
| PBDE017 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE028 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE047 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE049 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE066 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE071 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE085 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE099 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE100 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE138 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE153 | NA | ND | 0.05 | 0.1 | ng/dry g | |

PHYSIS Project ID: 1307001-001

Client: AMEC

Project: POLA/POLB Harbor Toxics TMDL and Bight '13



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CA ELAP #2769

PolyBrominated Diphenyl Ethers

ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|---------|----------|--------|------|-----|----------|---------|
| PBDE154 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE183 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE190 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE209 | NA | ND | 0.05 | 0.1 | ng/dry g | |

Sample ID: 21756-R1

B13-8347

Method: EPA 8270C-NCI

Matrix: Sediment

Batch ID: O-6003

Sampled: 12-Jul-13

15:41

Prepared: 15-Aug-13

Received: 13-Jul-13

Analyzed: 26-Aug-13

| | | | | | | |
|----------|----|-----|------|-----|------------|--|
| (DFPBDE) | NA | 93 | | | % Recovery | |
| (FTBDE) | NA | 108 | | | % Recovery | |
| PBDE017 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE028 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE047 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE049 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE066 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE071 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE085 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE099 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE100 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE138 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE153 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE154 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE183 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE190 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE209 | NA | ND | 0.05 | 0.1 | ng/dry g | |

Sample ID: 21760-R1

B13-8365

Method: EPA 8270C-NCI

Matrix: Sediment

Batch ID: O-6003

Sampled: 13-Jul-13

8:37

Prepared: 15-Aug-13

Received: 13-Jul-13

Analyzed: 26-Aug-13

| | | | | | | |
|----------|----|-----|------|-----|------------|--|
| (DFPBDE) | NA | 86 | | | % Recovery | |
| (FTBDE) | NA | 108 | | | % Recovery | |
| PBDE017 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE028 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE047 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE049 | NA | ND | 0.05 | 0.1 | ng/dry g | |



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CA ELAP #2769

PolyBrominated Diphenyl Ethers

ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|---------|----------|--------|------|-----|----------|---------|
| PBDE066 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE071 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE085 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE099 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE100 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE138 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE153 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE154 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE183 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE190 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE209 | NA | ND | 0.05 | 0.1 | ng/dry g | |

Sample ID: 21761-R1

B13-8318

Method: EPA 8270C-NCI

Matrix: Sediment

Batch ID: O-6003

Sampled: 13-Jul-13

10:57

Received: 13-Jul-13

Prepared: 15-Aug-13

Analyzed: 26-Aug-13

| | | | | | | |
|----------|----|-----|------|-----|------------|--|
| (DFPBDE) | NA | 124 | | | % Recovery | |
| (FTBDE) | NA | 109 | | | % Recovery | |
| PBDE017 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE028 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE047 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE049 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE066 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE071 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE085 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE099 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE100 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE138 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE153 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE154 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE183 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE190 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE209 | NA | ND | 0.05 | 0.1 | ng/dry g | |

Sample ID: 21762-R1

B13-8322

Matrix: Sediment

Sampled: 13-Jul-13

10:11

Received: 13-Jul-13



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CA ELAP #2769

PolyBrominated Diphenyl Ethers

ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|-----------------------|----------|------------------|------|---------------------|------------|---------------------|
| Method: EPA 8270C-NCI | | Batch ID: O-6003 | | Prepared: 15-Aug-13 | | Analyzed: 26-Aug-13 |
| (DFPBDE) | NA | 83 | | | % Recovery | |
| (FTBDE) | NA | 111 | | | % Recovery | |
| PBDE017 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE028 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE047 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE049 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE066 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE071 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE085 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE099 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE100 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE138 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE153 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE154 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE183 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE190 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE209 | NA | ND | 0.05 | 0.1 | ng/dry g | |

Sample ID: 21763-R1

B13-8333

Matrix: Sediment

Sampled: 13-Jul-13

7:43

Received: 13-Jul-13

Method: EPA 8270C-NCI

Batch ID: O-6005

Prepared: 24-Aug-13

Analyzed: 06-Sep-13

| | | | | | | |
|----------|----|-----|------|-----|------------|--|
| (DFPBDE) | NA | 103 | | | % Recovery | |
| (FTBDE) | NA | 106 | | | % Recovery | |
| PBDE017 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE028 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE047 | NA | 0.1 | 0.05 | 0.1 | ng/dry g | |
| PBDE049 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE066 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE071 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE085 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE099 | NA | 0.6 | 0.05 | 0.1 | ng/dry g | |
| PBDE100 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE138 | NA | ND | 0.05 | 0.1 | ng/dry g | |

PHYSIS Project ID: 1307001-001

Client: AMEC

Project: POLA/POLB Harbor Toxics TMDL and Bight '13



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CA ELAP #2769

PolyBrominated Diphenyl Ethers

ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|---------|----------|--------|------|-----|----------|---------|
| PBDE153 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE154 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE183 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE190 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE209 | NA | ND | 0.05 | 0.1 | ng/dry g | |

Sample ID: 21764-R1

B13-8356

Method: EPA 8270C-NCI

Matrix: Sediment

Batch ID: O-6005

Sampled: 13-Jul-13

9:22

Received: 13-Jul-13

Prepared: 24-Aug-13

Analyzed: 06-Sep-13

| | | | | | | |
|----------|----|-----|------|-----|------------|--|
| (DFPBDE) | NA | 111 | | | % Recovery | |
| (FTBDE) | NA | 119 | | | % Recovery | |
| PBDE017 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE028 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE047 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE049 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE066 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE071 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE085 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE099 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE100 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE138 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE153 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE154 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE183 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE190 | NA | ND | 0.05 | 0.1 | ng/dry g | |
| PBDE209 | NA | ND | 0.05 | 0.1 | ng/dry g | |



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Polynuclear Aromatic Hydrocarbons

ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|----------------------------|-------------------|-------------------------|-----|----|---------------------------------|----------------------------|
| Sample ID: 21733-R1 | B13-8382 | Matrix: Sediment | | | Sampled: 10-Jul-13 11:04 | Received: 13-Jul-13 |
| | Method: EPA 8270C | Batch ID: O-6001 | | | Prepared: 09-Aug-13 | Analyzed: 30-Aug-13 |
| (d10-Acenaphthene) | NA | 77 | | | % Recovery | |
| (d10-Phenanthrene) | NA | 90 | | | % Recovery | |
| (d12-Chrysene) | NA | 121 | | | % Recovery | |
| (d8-Naphthalene) | NA | 56 | | | % Recovery | |
| 1-Methylnaphthalene | NA | ND | 1 | 5 | ng/dry g | |
| 1-Methylphenanthrene | NA | 1.3 | 1 | 5 | ng/dry g | J |
| 2,3,5-Trimethylnaphthalene | NA | ND | 1 | 5 | ng/dry g | |
| 2,6-Dimethylnaphthalene | NA | ND | 1 | 5 | ng/dry g | |
| 2-Methylnaphthalene | NA | ND | 1 | 5 | ng/dry g | |
| Acenaphthene | NA | 1 | 1 | 5 | ng/dry g | J |
| Acenaphthylene | NA | 1.8 | 1 | 5 | ng/dry g | J |
| Anthracene | NA | 7.8 | 1 | 5 | ng/dry g | |
| Benz[a]anthracene | NA | 13.3 | 1 | 5 | ng/dry g | |
| Benzo[a]pyrene | NA | 36.4 | 1 | 5 | ng/dry g | |
| Benzo[b]fluoranthene | NA | 32.6 | 1 | 5 | ng/dry g | |
| Benzo[e]pyrene | NA | 17.9 | 1 | 5 | ng/dry g | |
| Benzo[g,h,i]perylene | NA | 15.6 | 1 | 5 | ng/dry g | |
| Benzo[k]fluoranthene | NA | 23 | 1 | 5 | ng/dry g | |
| Biphenyl | NA | ND | 1 | 5 | ng/dry g | |
| Chrysene | NA | 19.9 | 1 | 5 | ng/dry g | |
| Dibenz[a,h]anthracene | NA | 9.1 | 1 | 5 | ng/dry g | |
| Dibenzothiophene | NA | ND | 1 | 5 | ng/dry g | |
| Fluoranthene | NA | 8.5 | 1 | 5 | ng/dry g | |
| Fluorene | NA | ND | 1 | 5 | ng/dry g | |
| Indeno[1,2,3-c,d]pyrene | NA | 25 | 1 | 5 | ng/dry g | |
| Naphthalene | NA | 1 | 1 | 5 | ng/dry g | J |
| Perylene | NA | 11.6 | 1 | 5 | ng/dry g | |
| Phenanthrene | NA | 3.3 | 1 | 5 | ng/dry g | J |
| Pyrene | NA | 9.9 | 1 | 5 | ng/dry g | |



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Polynuclear Aromatic Hydrocarbons

ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|----------------------------|-------------------|-------------------------|-----|----|------------|---------|
| Sample ID: 21734-R1 | B13-8374 | Matrix: Sediment | | | | |
| | Method: EPA 8270C | Batch ID: O-6001 | | | | |
| | | | | | | |
| (d10-Acenaphthene) | NA | 71 | | | % Recovery | |
| (d10-Phenanthrene) | NA | 87 | | | % Recovery | |
| (d12-Chrysene) | NA | 114 | | | % Recovery | |
| (d8-Naphthalene) | NA | 51 | | | % Recovery | |
| 1-Methylnaphthalene | NA | ND | 1 | 5 | ng/dry g | |
| 1-Methylphenanthrene | NA | 1 | 1 | 5 | ng/dry g | J |
| 2,3,5-Trimethylnaphthalene | NA | ND | 1 | 5 | ng/dry g | |
| 2,6-Dimethylnaphthalene | NA | ND | 1 | 5 | ng/dry g | |
| 2-Methylnaphthalene | NA | ND | 1 | 5 | ng/dry g | |
| Acenaphthene | NA | ND | 1 | 5 | ng/dry g | |
| Acenaphthylene | NA | 1.2 | 1 | 5 | ng/dry g | J |
| Anthracene | NA | 5.5 | 1 | 5 | ng/dry g | |
| Benz[a]anthracene | NA | 7.6 | 1 | 5 | ng/dry g | |
| Benzo[a]pyrene | NA | 17.4 | 1 | 5 | ng/dry g | |
| Benzo[b]fluoranthene | NA | 13.8 | 1 | 5 | ng/dry g | |
| Benzo[e]pyrene | NA | 6.2 | 1 | 5 | ng/dry g | |
| Benzo[g,h,i]perylene | NA | 5.2 | 1 | 5 | ng/dry g | |
| Benzo[k]fluoranthene | NA | 7.6 | 1 | 5 | ng/dry g | |
| Biphenyl | NA | ND | 1 | 5 | ng/dry g | |
| Chrysene | NA | 11.4 | 1 | 5 | ng/dry g | |
| Dibenz[a,h]anthracene | NA | ND | 1 | 5 | ng/dry g | |
| Dibenzothiophene | NA | ND | 1 | 5 | ng/dry g | |
| Fluoranthene | NA | 11.6 | 1 | 5 | ng/dry g | |
| Fluorene | NA | 1.1 | 1 | 5 | ng/dry g | J |
| Indeno[1,2,3-c,d]pyrene | NA | 8.9 | 1 | 5 | ng/dry g | |
| Naphthalene | NA | 1.1 | 1 | 5 | ng/dry g | J |
| Perylene | NA | 5.2 | 1 | 5 | ng/dry g | |
| Phenanthrene | NA | 5.8 | 1 | 5 | ng/dry g | |
| Pyrene | NA | 8.5 | 1 | 5 | ng/dry g | |



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Polynuclear Aromatic Hydrocarbons

ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|----------------------------|-------------------|-------------------------|-----|----|---------------------------------|----------------------------|
| Sample ID: 21735-R1 | B13-8371 | Matrix: Sediment | | | Sampled: 10-Jul-13 12:03 | Received: 13-Jul-13 |
| | Method: EPA 8270C | Batch ID: O-6001 | | | Prepared: 09-Aug-13 | Analyzed: 30-Aug-13 |
| (d10-Acenaphthene) | NA | 63 | | | % Recovery | |
| (d10-Phenanthrene) | NA | 76 | | | % Recovery | |
| (d12-Chrysene) | NA | 127 | | | % Recovery | |
| (d8-Naphthalene) | NA | 53 | | | % Recovery | |
| 1-Methylnaphthalene | NA | ND | 1 | 5 | ng/dry g | |
| 1-Methylphenanthrene | NA | 2 | 1 | 5 | ng/dry g | J |
| 2,3,5-Trimethylnaphthalene | NA | ND | 1 | 5 | ng/dry g | |
| 2,6-Dimethylnaphthalene | NA | ND | 1 | 5 | ng/dry g | |
| 2-Methylnaphthalene | NA | ND | 1 | 5 | ng/dry g | |
| Acenaphthene | NA | ND | 1 | 5 | ng/dry g | |
| Acenaphthylene | NA | 2.1 | 1 | 5 | ng/dry g | J |
| Anthracene | NA | 12.8 | 1 | 5 | ng/dry g | |
| Benz[a]anthracene | NA | 18.5 | 1 | 5 | ng/dry g | |
| Benzo[a]pyrene | NA | 49.1 | 1 | 5 | ng/dry g | |
| Benzo[b]fluoranthene | NA | 41.1 | 1 | 5 | ng/dry g | |
| Benzo[e]pyrene | NA | 21.8 | 1 | 5 | ng/dry g | |
| Benzo[g,h,i]perylene | NA | 22.3 | 1 | 5 | ng/dry g | |
| Benzo[k]fluoranthene | NA | 26.2 | 1 | 5 | ng/dry g | |
| Biphenyl | NA | ND | 1 | 5 | ng/dry g | |
| Chrysene | NA | 36.7 | 1 | 5 | ng/dry g | |
| Dibenz[a,h]anthracene | NA | 11.6 | 1 | 5 | ng/dry g | |
| Dibenzothiophene | NA | ND | 1 | 5 | ng/dry g | |
| Fluoranthene | NA | 17.7 | 1 | 5 | ng/dry g | |
| Fluorene | NA | 1.4 | 1 | 5 | ng/dry g | J |
| Indeno[1,2,3-c,d]pyrene | NA | 31.8 | 1 | 5 | ng/dry g | |
| Naphthalene | NA | ND | 1 | 5 | ng/dry g | |
| Perylene | NA | 12.4 | 1 | 5 | ng/dry g | |
| Phenanthrene | NA | 10.6 | 1 | 5 | ng/dry g | |
| Pyrene | NA | 16.6 | 1 | 5 | ng/dry g | |



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Polynuclear Aromatic Hydrocarbons

ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|----------------------------|-------------------|-------------------------|-----|----|---------------------------------|----------------------------|
| Sample ID: 21736-R1 | B13-8363 | Matrix: Sediment | | | Sampled: 10-Jul-13 13:38 | Received: 13-Jul-13 |
| | Method: EPA 8270C | Batch ID: O-6001 | | | Prepared: 09-Aug-13 | Analyzed: 30-Aug-13 |
| (d10-Acenaphthene) | NA | 67 | | | % Recovery | |
| (d10-Phenanthrene) | NA | 84 | | | % Recovery | |
| (d12-Chrysene) | NA | 118 | | | % Recovery | |
| (d8-Naphthalene) | NA | 39 | | | % Recovery | |
| 1-Methylnaphthalene | NA | ND | 1 | 5 | ng/dry g | |
| 1-Methylphenanthrene | NA | ND | 1 | 5 | ng/dry g | |
| 2,3,5-Trimethylnaphthalene | NA | ND | 1 | 5 | ng/dry g | |
| 2,6-Dimethylnaphthalene | NA | ND | 1 | 5 | ng/dry g | |
| 2-Methylnaphthalene | NA | ND | 1 | 5 | ng/dry g | |
| Acenaphthene | NA | ND | 1 | 5 | ng/dry g | |
| Acenaphthylene | NA | ND | 1 | 5 | ng/dry g | |
| Anthracene | NA | 2.9 | 1 | 5 | ng/dry g | J |
| Benz[a]anthracene | NA | 4.6 | 1 | 5 | ng/dry g | J |
| Benzo[a]pyrene | NA | 8.1 | 1 | 5 | ng/dry g | |
| Benzo[b]fluoranthene | NA | 9.2 | 1 | 5 | ng/dry g | |
| Benzo[e]pyrene | NA | 3.7 | 1 | 5 | ng/dry g | J |
| Benzo[g,h,i]perylene | NA | 3.1 | 1 | 5 | ng/dry g | J |
| Benzo[k]fluoranthene | NA | 4.4 | 1 | 5 | ng/dry g | J |
| Biphenyl | NA | ND | 1 | 5 | ng/dry g | |
| Chrysene | NA | 6 | 1 | 5 | ng/dry g | |
| Dibenz[a,h]anthracene | NA | ND | 1 | 5 | ng/dry g | |
| Dibenzothiophene | NA | ND | 1 | 5 | ng/dry g | |
| Fluoranthene | NA | 3.2 | 1 | 5 | ng/dry g | J |
| Fluorene | NA | ND | 1 | 5 | ng/dry g | |
| Indeno[1,2,3-c,d]pyrene | NA | 4.5 | 1 | 5 | ng/dry g | J |
| Naphthalene | NA | ND | 1 | 5 | ng/dry g | |
| Perylene | NA | 3.4 | 1 | 5 | ng/dry g | J |
| Phenanthrene | NA | 1.2 | 1 | 5 | ng/dry g | J |
| Pyrene | NA | 2.5 | 1 | 5 | ng/dry g | J |



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Polynuclear Aromatic Hydrocarbons

ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|----------------------------|-------------------|-------------------------|-----|---------------------------------|------------|----------------------------|
| Sample ID: 21737-R1 | B13-8360 | Matrix: Sediment | | | | |
| | Method: EPA 8270C | Batch ID: O-6001 | | | | |
| | | | | Sampled: 10-Jul-13 15:30 | | Received: 13-Jul-13 |
| | | | | Prepared: 09-Aug-13 | | Analyzed: 30-Aug-13 |
| (d10-Acenaphthene) | NA | 70 | | | % Recovery | |
| (d10-Phenanthrene) | NA | 86 | | | % Recovery | |
| (d12-Chrysene) | NA | 116 | | | % Recovery | |
| (d8-Naphthalene) | NA | 52 | | | % Recovery | |
| 1-Methylnaphthalene | NA | ND | 1 | 5 | ng/dry g | |
| 1-Methylphenanthrene | NA | ND | 1 | 5 | ng/dry g | |
| 2,3,5-Trimethylnaphthalene | NA | ND | 1 | 5 | ng/dry g | |
| 2,6-Dimethylnaphthalene | NA | ND | 1 | 5 | ng/dry g | |
| 2-Methylnaphthalene | NA | ND | 1 | 5 | ng/dry g | |
| Acenaphthene | NA | ND | 1 | 5 | ng/dry g | |
| Acenaphthylene | NA | ND | 1 | 5 | ng/dry g | |
| Anthracene | NA | 2.1 | 1 | 5 | ng/dry g | J |
| Benz[a]anthracene | NA | 1.8 | 1 | 5 | ng/dry g | J |
| Benzo[a]pyrene | NA | 6.8 | 1 | 5 | ng/dry g | |
| Benzo[b]fluoranthene | NA | 4.8 | 1 | 5 | ng/dry g | J |
| Benzo[e]pyrene | NA | 2.5 | 1 | 5 | ng/dry g | J |
| Benzo[g,h,i]perylene | NA | 1.8 | 1 | 5 | ng/dry g | J |
| Benzo[k]fluoranthene | NA | 2.1 | 1 | 5 | ng/dry g | J |
| Biphenyl | NA | ND | 1 | 5 | ng/dry g | |
| Chrysene | NA | 3 | 1 | 5 | ng/dry g | J |
| Dibenz[a,h]anthracene | NA | ND | 1 | 5 | ng/dry g | |
| Dibenzothiophene | NA | ND | 1 | 5 | ng/dry g | |
| Fluoranthene | NA | 2.2 | 1 | 5 | ng/dry g | J |
| Fluorene | NA | ND | 1 | 5 | ng/dry g | |
| Indeno[1,2,3-c,d]pyrene | NA | 3.2 | 1 | 5 | ng/dry g | J |
| Naphthalene | NA | ND | 1 | 5 | ng/dry g | |
| Perylene | NA | 3.6 | 1 | 5 | ng/dry g | J |
| Phenanthrene | NA | ND | 1 | 5 | ng/dry g | |
| Pyrene | NA | 2.1 | 1 | 5 | ng/dry g | J |



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Polynuclear Aromatic Hydrocarbons

ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|----------------------------|-------------------|-------------------------|-----|---------------------------|-------------|----------------------------|
| Sample ID: 21738-R1 | B13-8349 | Matrix: Sediment | | | | |
| | Method: EPA 8270C | Batch ID: O-6001 | | | | |
| | | | | Sampled: 10-Jul-13 | 9:51 | Received: 13-Jul-13 |
| | | | | Prepared: 09-Aug-13 | | Analyzed: 30-Aug-13 |
| (d10-Acenaphthene) | NA | 63 | | | % Recovery | |
| (d10-Phenanthrene) | NA | 83 | | | % Recovery | |
| (d12-Chrysene) | NA | 109 | | | % Recovery | |
| (d8-Naphthalene) | NA | 40 | | | % Recovery | |
| 1-Methylnaphthalene | NA | ND | 1 | 5 | ng/dry g | |
| 1-Methylphenanthrene | NA | 1.1 | 1 | 5 | ng/dry g | J |
| 2,3,5-Trimethylnaphthalene | NA | ND | 1 | 5 | ng/dry g | |
| 2,6-Dimethylnaphthalene | NA | ND | 1 | 5 | ng/dry g | |
| 2-Methylnaphthalene | NA | ND | 1 | 5 | ng/dry g | |
| Acenaphthene | NA | ND | 1 | 5 | ng/dry g | |
| Acenaphthylene | NA | ND | 1 | 5 | ng/dry g | |
| Anthracene | NA | 2.1 | 1 | 5 | ng/dry g | J |
| Benz[a]anthracene | NA | 3.3 | 1 | 5 | ng/dry g | J |
| Benzo[a]pyrene | NA | 9 | 1 | 5 | ng/dry g | |
| Benzo[b]fluoranthene | NA | 6.6 | 1 | 5 | ng/dry g | |
| Benzo[e]pyrene | NA | 3.2 | 1 | 5 | ng/dry g | J |
| Benzo[g,h,i]perylene | NA | 3.8 | 1 | 5 | ng/dry g | J |
| Benzo[k]fluoranthene | NA | 3.3 | 1 | 5 | ng/dry g | J |
| Biphenyl | NA | ND | 1 | 5 | ng/dry g | |
| Chrysene | NA | 4.2 | 1 | 5 | ng/dry g | J |
| Dibenz[a,h]anthracene | NA | 3.1 | 1 | 5 | ng/dry g | J |
| Dibenzothiophene | NA | 1.1 | 1 | 5 | ng/dry g | J |
| Fluoranthene | NA | 4.8 | 1 | 5 | ng/dry g | J |
| Fluorene | NA | ND | 1 | 5 | ng/dry g | |
| Indeno[1,2,3-c,d]pyrene | NA | 7.7 | 1 | 5 | ng/dry g | |
| Naphthalene | NA | ND | 1 | 5 | ng/dry g | |
| Perylene | NA | 7.6 | 1 | 5 | ng/dry g | |
| Phenanthrene | NA | 1.8 | 1 | 5 | ng/dry g | J |
| Pyrene | NA | 4.5 | 1 | 5 | ng/dry g | J |



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Polynuclear Aromatic Hydrocarbons

ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|----------------------------|-------------------|-------------------------|-----|----|---------------------|----------------------------|
| Sample ID: 21739-R1 | B13-8326 | Matrix: Sediment | | | 8:28 | Received: 13-Jul-13 |
| | Method: EPA 8270C | Batch ID: O-6001 | | | Prepared: 09-Aug-13 | Analyzed: 30-Aug-13 |
| (d10-Acenaphthene) | NA | 76 | | | % Recovery | |
| (d10-Phenanthrene) | NA | 90 | | | % Recovery | |
| (d12-Chrysene) | NA | 116 | | | % Recovery | |
| (d8-Naphthalene) | NA | 59 | | | % Recovery | |
| 1-Methylnaphthalene | NA | ND | 1 | 5 | ng/dry g | |
| 1-Methylphenanthrene | NA | 1.1 | 1 | 5 | ng/dry g | J |
| 2,3,5-Trimethylnaphthalene | NA | ND | 1 | 5 | ng/dry g | |
| 2,6-Dimethylnaphthalene | NA | ND | 1 | 5 | ng/dry g | |
| 2-Methylnaphthalene | NA | ND | 1 | 5 | ng/dry g | |
| Acenaphthene | NA | ND | 1 | 5 | ng/dry g | |
| Acenaphthylene | NA | ND | 1 | 5 | ng/dry g | |
| Anthracene | NA | 4 | 1 | 5 | ng/dry g | J |
| Benz[a]anthracene | NA | 5.6 | 1 | 5 | ng/dry g | |
| Benzo[a]pyrene | NA | 9.2 | 1 | 5 | ng/dry g | |
| Benzo[b]fluoranthene | NA | 7.3 | 1 | 5 | ng/dry g | |
| Benzo[e]pyrene | NA | 3.1 | 1 | 5 | ng/dry g | J |
| Benzo[g,h,i]perylene | NA | 3.6 | 1 | 5 | ng/dry g | J |
| Benzo[k]fluoranthene | NA | 4.1 | 1 | 5 | ng/dry g | J |
| Biphenyl | NA | ND | 1 | 5 | ng/dry g | |
| Chrysene | NA | 7.9 | 1 | 5 | ng/dry g | |
| Dibenz[a,h]anthracene | NA | 2.9 | 1 | 5 | ng/dry g | J |
| Dibenzothiophene | NA | 1 | 1 | 5 | ng/dry g | J |
| Fluoranthene | NA | 2.6 | 1 | 5 | ng/dry g | J |
| Fluorene | NA | ND | 1 | 5 | ng/dry g | |
| Indeno[1,2,3-c,d]pyrene | NA | 4.8 | 1 | 5 | ng/dry g | J |
| Naphthalene | NA | ND | 1 | 5 | ng/dry g | |
| Perylene | NA | 6.9 | 1 | 5 | ng/dry g | |
| Phenanthrene | NA | 1.3 | 1 | 5 | ng/dry g | J |
| Pyrene | NA | 2.2 | 1 | 5 | ng/dry g | J |



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Polynuclear Aromatic Hydrocarbons

ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|----------------------------|-------------------|-------------------------|-----|---------------------------|--------------|----------------------------|
| Sample ID: 21740-R1 | B13-8367 | Matrix: Sediment | | | | |
| | Method: EPA 8270C | Batch ID: O-6001 | | | | |
| | | | | Sampled: 11-Jul-13 | 14:10 | Received: 13-Jul-13 |
| | | | | Prepared: 09-Aug-13 | | Analyzed: 30-Aug-13 |
| (d10-Acenaphthene) | NA | 67 | | | % Recovery | |
| (d10-Phenanthrene) | NA | 70 | | | % Recovery | |
| (d12-Chrysene) | NA | 115 | | | % Recovery | |
| (d8-Naphthalene) | NA | 58 | | | % Recovery | |
| 1-Methylnaphthalene | NA | ND | 1 | 5 | ng/dry g | |
| 1-Methylphenanthrene | NA | 1.5 | 1 | 5 | ng/dry g | J |
| 2,3,5-Trimethylnaphthalene | NA | ND | 1 | 5 | ng/dry g | |
| 2,6-Dimethylnaphthalene | NA | ND | 1 | 5 | ng/dry g | |
| 2-Methylnaphthalene | NA | ND | 1 | 5 | ng/dry g | |
| Acenaphthene | NA | ND | 1 | 5 | ng/dry g | |
| Acenaphthylene | NA | 2.2 | 1 | 5 | ng/dry g | J |
| Anthracene | NA | 4.8 | 1 | 5 | ng/dry g | J |
| Benz[a]anthracene | NA | 24.4 | 1 | 5 | ng/dry g | |
| Benzo[a]pyrene | NA | 51.5 | 1 | 5 | ng/dry g | |
| Benzo[b]fluoranthene | NA | 30.6 | 1 | 5 | ng/dry g | |
| Benzo[e]pyrene | NA | 19.3 | 1 | 5 | ng/dry g | |
| Benzo[g,h,i]perylene | NA | 21.7 | 1 | 5 | ng/dry g | |
| Benzo[k]fluoranthene | NA | 21.6 | 1 | 5 | ng/dry g | |
| Biphenyl | NA | ND | 1 | 5 | ng/dry g | |
| Chrysene | NA | 24.2 | 1 | 5 | ng/dry g | |
| Dibenz[a,h]anthracene | NA | 10 | 1 | 5 | ng/dry g | |
| Dibenzothiophene | NA | ND | 1 | 5 | ng/dry g | |
| Fluoranthene | NA | 16.8 | 1 | 5 | ng/dry g | |
| Fluorene | NA | ND | 1 | 5 | ng/dry g | |
| Indeno[1,2,3-c,d]pyrene | NA | 34.6 | 1 | 5 | ng/dry g | |
| Naphthalene | NA | 1.8 | 1 | 5 | ng/dry g | J |
| Perylene | NA | 18.5 | 1 | 5 | ng/dry g | |
| Phenanthrene | NA | 1.8 | 1 | 5 | ng/dry g | J |
| Pyrene | NA | 22.9 | 1 | 5 | ng/dry g | |



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Polynuclear Aromatic Hydrocarbons

ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|----------------------------|-------------------|-------------------------|-----|---------------------------|-------------|----------------------------|
| Sample ID: 21741-R1 | B13-8302 | Matrix: Sediment | | | | |
| | Method: EPA 8270C | Batch ID: O-6001 | | | | |
| | | | | Sampled: 11-Jul-13 | 9:29 | Received: 13-Jul-13 |
| | | | | Prepared: 09-Aug-13 | | Analyzed: 30-Aug-13 |
| (d10-Acenaphthene) | NA | 76 | | | % Recovery | |
| (d10-Phenanthrene) | NA | 89 | | | % Recovery | |
| (d12-Chrysene) | NA | 111 | | | % Recovery | |
| (d8-Naphthalene) | NA | 58 | | | % Recovery | |
| 1-Methylnaphthalene | NA | ND | 1 | 5 | ng/dry g | |
| 1-Methylphenanthrene | NA | ND | 1 | 5 | ng/dry g | |
| 2,3,5-Trimethylnaphthalene | NA | ND | 1 | 5 | ng/dry g | |
| 2,6-Dimethylnaphthalene | NA | ND | 1 | 5 | ng/dry g | |
| 2-Methylnaphthalene | NA | ND | 1 | 5 | ng/dry g | |
| Acenaphthene | NA | ND | 1 | 5 | ng/dry g | |
| Acenaphthylene | NA | ND | 1 | 5 | ng/dry g | |
| Anthracene | NA | 2.1 | 1 | 5 | ng/dry g | J |
| Benz[a]anthracene | NA | 1.7 | 1 | 5 | ng/dry g | J |
| Benzo[a]pyrene | NA | 5.7 | 1 | 5 | ng/dry g | |
| Benzo[b]fluoranthene | NA | 4.4 | 1 | 5 | ng/dry g | J |
| Benzo[e]pyrene | NA | 2.5 | 1 | 5 | ng/dry g | J |
| Benzo[g,h,i]perylene | NA | 2.8 | 1 | 5 | ng/dry g | J |
| Benzo[k]fluoranthene | NA | 1.4 | 1 | 5 | ng/dry g | J |
| Biphenyl | NA | ND | 1 | 5 | ng/dry g | |
| Chrysene | NA | 2.8 | 1 | 5 | ng/dry g | J |
| Dibenz[a,h]anthracene | NA | ND | 1 | 5 | ng/dry g | |
| Dibenzothiophene | NA | ND | 1 | 5 | ng/dry g | |
| Fluoranthene | NA | 3.7 | 1 | 5 | ng/dry g | J |
| Fluorene | NA | ND | 1 | 5 | ng/dry g | |
| Indeno[1,2,3-c,d]pyrene | NA | 5 | 1 | 5 | ng/dry g | |
| Naphthalene | NA | ND | 1 | 5 | ng/dry g | |
| Perylene | NA | 11.4 | 1 | 5 | ng/dry g | |
| Phenanthrene | NA | 1.6 | 1 | 5 | ng/dry g | J |
| Pyrene | NA | 3.4 | 1 | 5 | ng/dry g | J |



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ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|----------------------------|-------------------|-------------------------|-----|----|------------|---------|
| Sample ID: 21742-R1 | B13-8304 | Matrix: Sediment | | | | |
| | Method: EPA 8270C | Batch ID: O-6001 | | | | |
| | | | | | | |
| (d10-Acenaphthene) | NA | 73 | | | % Recovery | |
| (d10-Phenanthrene) | NA | 88 | | | % Recovery | |
| (d12-Chrysene) | NA | 128 | | | % Recovery | |
| (d8-Naphthalene) | NA | 50 | | | % Recovery | |
| 1-Methylnaphthalene | NA | ND | 1 | 5 | ng/dry g | |
| 1-Methylphenanthrene | NA | ND | 1 | 5 | ng/dry g | |
| 2,3,5-Trimethylnaphthalene | NA | ND | 1 | 5 | ng/dry g | |
| 2,6-Dimethylnaphthalene | NA | ND | 1 | 5 | ng/dry g | |
| 2-Methylnaphthalene | NA | ND | 1 | 5 | ng/dry g | |
| Acenaphthene | NA | ND | 1 | 5 | ng/dry g | |
| Acenaphthylene | NA | ND | 1 | 5 | ng/dry g | |
| Anthracene | NA | 1.3 | 1 | 5 | ng/dry g | J |
| Benz[a]anthracene | NA | 2.7 | 1 | 5 | ng/dry g | J |
| Benzo[a]pyrene | NA | 9 | 1 | 5 | ng/dry g | |
| Benzo[b]fluoranthene | NA | 5.9 | 1 | 5 | ng/dry g | |
| Benzo[e]pyrene | NA | 3.2 | 1 | 5 | ng/dry g | J |
| Benzo[g,h,i]perylene | NA | 2.9 | 1 | 5 | ng/dry g | J |
| Benzo[k]fluoranthene | NA | 2.5 | 1 | 5 | ng/dry g | J |
| Biphenyl | NA | ND | 1 | 5 | ng/dry g | |
| Chrysene | NA | 4 | 1 | 5 | ng/dry g | J |
| Dibenz[a,h]anthracene | NA | ND | 1 | 5 | ng/dry g | |
| Dibenzothiophene | NA | ND | 1 | 5 | ng/dry g | |
| Fluoranthene | NA | 4.6 | 1 | 5 | ng/dry g | J |
| Fluorene | NA | ND | 1 | 5 | ng/dry g | |
| Indeno[1,2,3-c,d]pyrene | NA | 4.5 | 1 | 5 | ng/dry g | J |
| Naphthalene | NA | ND | 1 | 5 | ng/dry g | |
| Perylene | NA | 10.3 | 1 | 5 | ng/dry g | |
| Phenanthrene | NA | 1.1 | 1 | 5 | ng/dry g | J |
| Pyrene | NA | 4.2 | 1 | 5 | ng/dry g | J |



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ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|----------------------------|-------------------|-------------------------|-----|---------------------------|--------------|----------------------------|
| Sample ID: 21743-R1 | B13-8306 | Matrix: Sediment | | | | |
| | Method: EPA 8270C | Batch ID: O-6003 | | | | |
| | | | | Sampled: 11-Jul-13 | 13:00 | Received: 13-Jul-13 |
| | | | | Prepared: 15-Aug-13 | | Analyzed: 09-Sep-13 |
| (d10-Acenaphthene) | NA | 76 | | | % Recovery | |
| (d10-Phenanthrene) | NA | 88 | | | % Recovery | |
| (d12-Chrysene) | NA | 108 | | | % Recovery | |
| (d8-Naphthalene) | NA | 58 | | | % Recovery | |
| 1-Methylnaphthalene | NA | ND | 1 | 5 | ng/dry g | |
| 1-Methylphenanthrene | NA | ND | 1 | 5 | ng/dry g | |
| 2,3,5-Trimethylnaphthalene | NA | ND | 1 | 5 | ng/dry g | |
| 2,6-Dimethylnaphthalene | NA | ND | 1 | 5 | ng/dry g | |
| 2-Methylnaphthalene | NA | ND | 1 | 5 | ng/dry g | |
| Acenaphthene | NA | ND | 1 | 5 | ng/dry g | |
| Acenaphthylene | NA | ND | 1 | 5 | ng/dry g | |
| Anthracene | NA | 2 | 1 | 5 | ng/dry g | J |
| Benz[a]anthracene | NA | 2.5 | 1 | 5 | ng/dry g | J |
| Benzo[a]pyrene | NA | 7.1 | 1 | 5 | ng/dry g | |
| Benzo[b]fluoranthene | NA | 6.4 | 1 | 5 | ng/dry g | |
| Benzo[e]pyrene | NA | 3.5 | 1 | 5 | ng/dry g | J |
| Benzo[g,h,i]perylene | NA | 4.1 | 1 | 5 | ng/dry g | J |
| Benzo[k]fluoranthene | NA | 2.6 | 1 | 5 | ng/dry g | J |
| Biphenyl | NA | ND | 1 | 5 | ng/dry g | |
| Chrysene | NA | 3.8 | 1 | 5 | ng/dry g | J |
| Dibenz[a,h]anthracene | NA | ND | 1 | 5 | ng/dry g | |
| Dibenzothiophene | NA | ND | 1 | 5 | ng/dry g | |
| Fluoranthene | NA | 5.7 | 1 | 5 | ng/dry g | |
| Fluorene | NA | ND | 1 | 5 | ng/dry g | |
| Indeno[1,2,3-c,d]pyrene | NA | 6.4 | 1 | 5 | ng/dry g | |
| Naphthalene | NA | ND | 1 | 5 | ng/dry g | |
| Perylene | NA | 30.4 | 1 | 5 | ng/dry g | |
| Phenanthrene | NA | 1.3 | 1 | 5 | ng/dry g | J |
| Pyrene | NA | 4.6 | 1 | 5 | ng/dry g | J |



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ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|----------------------------|-------------------|-------------------------|-----|----|---------------------------------|----------------------------|
| Sample ID: 21744-R1 | B13-8308 | Matrix: Sediment | | | Sampled: 11-Jul-13 17:06 | Received: 13-Jul-13 |
| | Method: EPA 8270C | Batch ID: O-6003 | | | Prepared: 15-Aug-13 | Analyzed: 09-Sep-13 |
| (d10-Acenaphthene) | NA | 85 | | | % Recovery | |
| (d10-Phenanthrene) | NA | 90 | | | % Recovery | |
| (d12-Chrysene) | NA | 111 | | | % Recovery | |
| (d8-Naphthalene) | NA | 64 | | | % Recovery | |
| 1-Methylnaphthalene | NA | ND | 1 | 5 | ng/dry g | |
| 1-Methylphenanthrene | NA | ND | 1 | 5 | ng/dry g | |
| 2,3,5-Trimethylnaphthalene | NA | ND | 1 | 5 | ng/dry g | |
| 2,6-Dimethylnaphthalene | NA | 1.1 | 1 | 5 | ng/dry g | J |
| 2-Methylnaphthalene | NA | ND | 1 | 5 | ng/dry g | |
| Acenaphthene | NA | ND | 1 | 5 | ng/dry g | |
| Acenaphthylene | NA | ND | 1 | 5 | ng/dry g | |
| Anthracene | NA | 1.3 | 1 | 5 | ng/dry g | J |
| Benz[a]anthracene | NA | 2.4 | 1 | 5 | ng/dry g | J |
| Benzo[a]pyrene | NA | 6.5 | 1 | 5 | ng/dry g | |
| Benzo[b]fluoranthene | NA | 3.8 | 1 | 5 | ng/dry g | J |
| Benzo[e]pyrene | NA | 2.5 | 1 | 5 | ng/dry g | J |
| Benzo[g,h,i]perylene | NA | 3.4 | 1 | 5 | ng/dry g | J |
| Benzo[k]fluoranthene | NA | 2.9 | 1 | 5 | ng/dry g | J |
| Biphenyl | NA | ND | 1 | 5 | ng/dry g | |
| Chrysene | NA | 3.1 | 1 | 5 | ng/dry g | J |
| Dibenz[a,h]anthracene | NA | ND | 1 | 5 | ng/dry g | |
| Dibenzothiophene | NA | ND | 1 | 5 | ng/dry g | |
| Fluoranthene | NA | 3.1 | 1 | 5 | ng/dry g | J |
| Fluorene | NA | ND | 1 | 5 | ng/dry g | |
| Indeno[1,2,3-c,d]pyrene | NA | 4.6 | 1 | 5 | ng/dry g | J |
| Naphthalene | NA | ND | 1 | 5 | ng/dry g | |
| Perylene | NA | 14.8 | 1 | 5 | ng/dry g | |
| Phenanthrene | NA | 1.3 | 1 | 5 | ng/dry g | J |
| Pyrene | NA | 3.3 | 1 | 5 | ng/dry g | J |



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ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|----------------------------|-------------------|-------------------------|-----|----|---------------------------------|----------------------------|
| Sample ID: 21745-R1 | B13-8310 | Matrix: Sediment | | | Sampled: 11-Jul-13 17:51 | Received: 13-Jul-13 |
| | Method: EPA 8270C | Batch ID: O-6005 | | | Prepared: 24-Aug-13 | Analyzed: 06-Sep-13 |
| (d10-Acenaphthene) | NA | 75 | | | % Recovery | |
| (d10-Phenanthrene) | NA | 88 | | | % Recovery | |
| (d12-Chrysene) | NA | 103 | | | % Recovery | |
| (d8-Naphthalene) | NA | 52 | | | % Recovery | |
| 1-Methylnaphthalene | NA | ND | 1 | 5 | ng/dry g | |
| 1-Methylphenanthrene | NA | ND | 1 | 5 | ng/dry g | |
| 2,3,5-Trimethylnaphthalene | NA | ND | 1 | 5 | ng/dry g | |
| 2,6-Dimethylnaphthalene | NA | ND | 1 | 5 | ng/dry g | |
| 2-Methylnaphthalene | NA | ND | 1 | 5 | ng/dry g | |
| Acenaphthene | NA | ND | 1 | 5 | ng/dry g | |
| Acenaphthylene | NA | 1.3 | 1 | 5 | ng/dry g | J |
| Anthracene | NA | 1.3 | 1 | 5 | ng/dry g | J |
| Benz[a]anthracene | NA | 6 | 1 | 5 | ng/dry g | |
| Benzo[a]pyrene | NA | 5.5 | 1 | 5 | ng/dry g | |
| Benzo[b]fluoranthene | NA | 2.7 | 1 | 5 | ng/dry g | J |
| Benzo[e]pyrene | NA | 2.5 | 1 | 5 | ng/dry g | J |
| Benzo[g,h,i]perylene | NA | 2.3 | 1 | 5 | ng/dry g | J |
| Benzo[k]fluoranthene | NA | 1.8 | 1 | 5 | ng/dry g | J |
| Biphenyl | NA | ND | 1 | 5 | ng/dry g | |
| Chrysene | NA | 5.1 | 1 | 5 | ng/dry g | |
| Dibenz[a,h]anthracene | NA | ND | 1 | 5 | ng/dry g | |
| Dibenzothiophene | NA | ND | 1 | 5 | ng/dry g | |
| Fluoranthene | NA | 7.3 | 1 | 5 | ng/dry g | |
| Fluorene | NA | ND | 1 | 5 | ng/dry g | |
| Indeno[1,2,3-c,d]pyrene | NA | 3.1 | 1 | 5 | ng/dry g | J |
| Naphthalene | NA | ND | 1 | 5 | ng/dry g | |
| Perylene | NA | 6.7 | 1 | 5 | ng/dry g | |
| Phenanthrene | NA | 1.1 | 1 | 5 | ng/dry g | J |
| Pyrene | NA | 9.2 | 1 | 5 | ng/dry g | |



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ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|----------------------------|-------------------|-------------------------|-----|---------------------------|--------------|----------------------------|
| Sample ID: 21746-R1 | B13-8316 | Matrix: Sediment | | | | |
| | Method: EPA 8270C | Batch ID: O-6005 | | | | |
| | | | | Sampled: 11-Jul-13 | 10:23 | Received: 13-Jul-13 |
| | | | | Prepared: 24-Aug-13 | | Analyzed: 06-Sep-13 |
| (d10-Acenaphthene) | NA | 56 | | | % Recovery | |
| (d10-Phenanthrene) | NA | 73 | | | % Recovery | |
| (d12-Chrysene) | NA | 78 | | | % Recovery | |
| (d8-Naphthalene) | NA | 41 | | | % Recovery | |
| 1-Methylnaphthalene | NA | ND | 1 | 5 | ng/dry g | |
| 1-Methylphenanthrene | NA | ND | 1 | 5 | ng/dry g | |
| 2,3,5-Trimethylnaphthalene | NA | ND | 1 | 5 | ng/dry g | |
| 2,6-Dimethylnaphthalene | NA | ND | 1 | 5 | ng/dry g | |
| 2-Methylnaphthalene | NA | ND | 1 | 5 | ng/dry g | |
| Acenaphthene | NA | ND | 1 | 5 | ng/dry g | |
| Acenaphthylene | NA | ND | 1 | 5 | ng/dry g | |
| Anthracene | NA | 1.1 | 1 | 5 | ng/dry g | J |
| Benz[a]anthracene | NA | 2.1 | 1 | 5 | ng/dry g | J |
| Benzo[a]pyrene | NA | 2.5 | 1 | 5 | ng/dry g | J |
| Benzo[b]fluoranthene | NA | 1.9 | 1 | 5 | ng/dry g | J |
| Benzo[e]pyrene | NA | 1.6 | 1 | 5 | ng/dry g | J |
| Benzo[g,h,i]perylene | NA | 2 | 1 | 5 | ng/dry g | J |
| Benzo[k]fluoranthene | NA | 1 | 1 | 5 | ng/dry g | J |
| Biphenyl | NA | ND | 1 | 5 | ng/dry g | |
| Chrysene | NA | 2.8 | 1 | 5 | ng/dry g | J |
| Dibenz[a,h]anthracene | NA | ND | 1 | 5 | ng/dry g | |
| Dibenzothiophene | NA | ND | 1 | 5 | ng/dry g | |
| Fluoranthene | NA | 3.8 | 1 | 5 | ng/dry g | J |
| Fluorene | NA | ND | 1 | 5 | ng/dry g | |
| Indeno[1,2,3-c,d]pyrene | NA | 2.4 | 1 | 5 | ng/dry g | J |
| Naphthalene | NA | ND | 1 | 5 | ng/dry g | |
| Perylene | NA | 3.5 | 1 | 5 | ng/dry g | J |
| Phenanthrene | NA | 1.5 | 1 | 5 | ng/dry g | J |
| Pyrene | NA | 3.4 | 1 | 5 | ng/dry g | J |



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ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|----------------------------|-------------------|-------------------------|-----|----|---------------------------------|----------------------------|
| Sample ID: 21747-R1 | TMDL2-FH | Matrix: Sediment | | | Sampled: 11-Jul-13 15:25 | Received: 13-Jul-13 |
| | Method: EPA 8270C | Batch ID: O-6005 | | | Prepared: 24-Aug-13 | Analyzed: 06-Sep-13 |
| (d10-Acenaphthene) | NA | 54 | | | % Recovery | |
| (d10-Phenanthrene) | NA | 76 | | | % Recovery | |
| (d12-Chrysene) | NA | 77 | | | % Recovery | |
| (d8-Naphthalene) | NA | 35 | | | % Recovery | |
| 1-Methylnaphthalene | NA | 1.4 | 1 | 5 | ng/dry g | J |
| 1-Methylphenanthrene | NA | 21.3 | 1 | 5 | ng/dry g | |
| 2,3,5-Trimethylnaphthalene | NA | 1.3 | 1 | 5 | ng/dry g | J |
| 2,6-Dimethylnaphthalene | NA | 1.3 | 1 | 5 | ng/dry g | J |
| 2-Methylnaphthalene | NA | 2.1 | 1 | 5 | ng/dry g | J |
| Acenaphthene | NA | 2.2 | 1 | 5 | ng/dry g | J |
| Acenaphthylene | NA | 16.3 | 1 | 5 | ng/dry g | |
| Anthracene | NA | 71.1 | 1 | 5 | ng/dry g | |
| Benz[a]anthracene | NA | 132.7 | 1 | 5 | ng/dry g | |
| Benzo[a]pyrene | NA | 148.6 | 1 | 5 | ng/dry g | |
| Benzo[b]fluoranthene | NA | 109.1 | 1 | 5 | ng/dry g | |
| Benzo[e]pyrene | NA | 74.4 | 1 | 5 | ng/dry g | |
| Benzo[g,h,i]perylene | NA | 67 | 1 | 5 | ng/dry g | |
| Benzo[k]fluoranthene | NA | 66.7 | 1 | 5 | ng/dry g | |
| Biphenyl | NA | ND | 1 | 5 | ng/dry g | |
| Chrysene | NA | 156 | 1 | 5 | ng/dry g | |
| Dibenz[a,h]anthracene | NA | 29.4 | 1 | 5 | ng/dry g | |
| Dibenzothiophene | NA | 3.6 | 1 | 5 | ng/dry g | J |
| Fluoranthene | NA | 185.5 | 1 | 5 | ng/dry g | |
| Fluorene | NA | 5.5 | 1 | 5 | ng/dry g | |
| Indeno[1,2,3-c,d]pyrene | NA | 118.8 | 1 | 5 | ng/dry g | |
| Naphthalene | NA | 3.2 | 1 | 5 | ng/dry g | J |
| Perylene | NA | 46.6 | 1 | 5 | ng/dry g | |
| Phenanthrene | NA | 55.1 | 1 | 5 | ng/dry g | |
| Pyrene | NA | 209.5 | 1 | 5 | ng/dry g | |



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ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|----------------------------|-------------------|-------------------------|-----|----|---------------------------------|----------------------------|
| Sample ID: 21748-R1 | TMDL1-CH | Matrix: Sediment | | | Sampled: 11-Jul-13 12:07 | Received: 13-Jul-13 |
| | Method: EPA 8270C | Batch ID: O-6005 | | | Prepared: 24-Aug-13 | Analyzed: 06-Sep-13 |
| (d10-Acenaphthene) | NA | 67 | | | % Recovery | |
| (d10-Phenanthrene) | NA | 79 | | | % Recovery | |
| (d12-Chrysene) | NA | 68 | | | % Recovery | |
| (d8-Naphthalene) | NA | 50 | | | % Recovery | |
| 1-Methylnaphthalene | NA | ND | 1 | 5 | ng/dry g | |
| 1-Methylphenanthrene | NA | 1.3 | 1 | 5 | ng/dry g | J |
| 2,3,5-Trimethylnaphthalene | NA | ND | 1 | 5 | ng/dry g | |
| 2,6-Dimethylnaphthalene | NA | 1.2 | 1 | 5 | ng/dry g | J |
| 2-Methylnaphthalene | NA | 1 | 1 | 5 | ng/dry g | J |
| Acenaphthene | NA | ND | 1 | 5 | ng/dry g | |
| Acenaphthylene | NA | 2.5 | 1 | 5 | ng/dry g | J |
| Anthracene | NA | 12.7 | 1 | 5 | ng/dry g | |
| Benz[a]anthracene | NA | 17.6 | 1 | 5 | ng/dry g | |
| Benzo[a]pyrene | NA | 27.6 | 1 | 5 | ng/dry g | |
| Benzo[b]fluoranthene | NA | 23.7 | 1 | 5 | ng/dry g | |
| Benzo[e]pyrene | NA | 15.6 | 1 | 5 | ng/dry g | |
| Benzo[g,h,i]perylene | NA | 18.2 | 1 | 5 | ng/dry g | |
| Benzo[k]fluoranthene | NA | 14.6 | 1 | 5 | ng/dry g | |
| Biphenyl | NA | ND | 1 | 5 | ng/dry g | |
| Chrysene | NA | 27.2 | 1 | 5 | ng/dry g | |
| Dibenz[a,h]anthracene | NA | 7.5 | 1 | 5 | ng/dry g | |
| Dibenzothiophene | NA | ND | 1 | 5 | ng/dry g | |
| Fluoranthene | NA | 19.6 | 1 | 5 | ng/dry g | |
| Fluorene | NA | 1 | 1 | 5 | ng/dry g | J |
| Indeno[1,2,3-c,d]pyrene | NA | 29.5 | 1 | 5 | ng/dry g | |
| Naphthalene | NA | 1.4 | 1 | 5 | ng/dry g | J |
| Perylene | NA | 40.5 | 1 | 5 | ng/dry g | |
| Phenanthrene | NA | 7 | 1 | 5 | ng/dry g | |
| Pyrene | NA | 17.9 | 1 | 5 | ng/dry g | |



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Polynuclear Aromatic Hydrocarbons

ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|----------------------------|-------------------|-------------------------|-----|----|---------------------------------|----------------------------|
| Sample ID: 21749-R1 | TMDL5-DT | Matrix: Sediment | | | Sampled: 11-Jul-13 15:25 | Received: 13-Jul-13 |
| | Method: EPA 8270C | Batch ID: O-6005 | | | Prepared: 24-Aug-13 | Analyzed: 06-Sep-13 |
| (d10-Acenaphthene) | NA | 55 | | | % Recovery | |
| (d10-Phenanthrene) | NA | 74 | | | % Recovery | |
| (d12-Chrysene) | NA | 73 | | | % Recovery | |
| (d8-Naphthalene) | NA | 39 | | | % Recovery | |
| 1-Methylnaphthalene | NA | 1.7 | 1 | 5 | ng/dry g | J |
| 1-Methylphenanthrene | NA | 22.7 | 1 | 5 | ng/dry g | |
| 2,3,5-Trimethylnaphthalene | NA | 2.2 | 1 | 5 | ng/dry g | J |
| 2,6-Dimethylnaphthalene | NA | 1.6 | 1 | 5 | ng/dry g | J |
| 2-Methylnaphthalene | NA | 2.3 | 1 | 5 | ng/dry g | J |
| Acenaphthene | NA | 2.1 | 1 | 5 | ng/dry g | J |
| Acenaphthylene | NA | 17.1 | 1 | 5 | ng/dry g | |
| Anthracene | NA | 57.5 | 1 | 5 | ng/dry g | |
| Benz[a]anthracene | NA | 120.1 | 1 | 5 | ng/dry g | |
| Benzo[a]pyrene | NA | 155.4 | 1 | 5 | ng/dry g | |
| Benzo[b]fluoranthene | NA | 100.8 | 1 | 5 | ng/dry g | |
| Benzo[e]pyrene | NA | 74.3 | 1 | 5 | ng/dry g | |
| Benzo[g,h,i]perylene | NA | 76.3 | 1 | 5 | ng/dry g | |
| Benzo[k]fluoranthene | NA | 63.3 | 1 | 5 | ng/dry g | |
| Biphenyl | NA | ND | 1 | 5 | ng/dry g | |
| Chrysene | NA | 117.7 | 1 | 5 | ng/dry g | |
| Dibenz[a,h]anthracene | NA | 32.1 | 1 | 5 | ng/dry g | |
| Dibenzothiophene | NA | 4.1 | 1 | 5 | ng/dry g | J |
| Fluoranthene | NA | 188.5 | 1 | 5 | ng/dry g | |
| Fluorene | NA | 6.3 | 1 | 5 | ng/dry g | |
| Indeno[1,2,3-c,d]pyrene | NA | 133.2 | 1 | 5 | ng/dry g | |
| Naphthalene | NA | 5.6 | 1 | 5 | ng/dry g | |
| Perylene | NA | 52.6 | 1 | 5 | ng/dry g | |
| Phenanthrene | NA | 70.4 | 1 | 5 | ng/dry g | |
| Pyrene | NA | 235.9 | 1 | 5 | ng/dry g | |



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ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|----------------------------|-------------------|-------------------------|-----|----|---------------------------------|----------------------------|
| Sample ID: 21750-R1 | B13-8401 | Matrix: Sediment | | | Sampled: 12-Jul-13 14:42 | Received: 13-Jul-13 |
| | Method: EPA 8270C | Batch ID: O-6005 | | | Prepared: 24-Aug-13 | Analyzed: 06-Sep-13 |
| (d10-Acenaphthene) | NA | 61 | | | % Recovery | |
| (d10-Phenanthrene) | NA | 79 | | | % Recovery | |
| (d12-Chrysene) | NA | 87 | | | % Recovery | |
| (d8-Naphthalene) | NA | 39 | | | % Recovery | |
| 1-Methylnaphthalene | NA | ND | 1 | 5 | ng/dry g | |
| 1-Methylphenanthrene | NA | 4.8 | 1 | 5 | ng/dry g | J |
| 2,3,5-Trimethylnaphthalene | NA | ND | 1 | 5 | ng/dry g | |
| 2,6-Dimethylnaphthalene | NA | 1 | 1 | 5 | ng/dry g | J |
| 2-Methylnaphthalene | NA | ND | 1 | 5 | ng/dry g | |
| Acenaphthene | NA | 1.1 | 1 | 5 | ng/dry g | J |
| Acenaphthylene | NA | 9.8 | 1 | 5 | ng/dry g | |
| Anthracene | NA | 57.5 | 1 | 5 | ng/dry g | |
| Benz[a]anthracene | NA | 72.2 | 1 | 5 | ng/dry g | |
| Benzo[a]pyrene | NA | 105.4 | 1 | 5 | ng/dry g | |
| Benzo[b]fluoranthene | NA | 82.4 | 1 | 5 | ng/dry g | |
| Benzo[e]pyrene | NA | 52.5 | 1 | 5 | ng/dry g | |
| Benzo[g,h,i]perylene | NA | 34.7 | 1 | 5 | ng/dry g | |
| Benzo[k]fluoranthene | NA | 53.6 | 1 | 5 | ng/dry g | |
| Biphenyl | NA | ND | 1 | 5 | ng/dry g | |
| Chrysene | NA | 123.9 | 1 | 5 | ng/dry g | |
| Dibenz[a,h]anthracene | NA | 18.8 | 1 | 5 | ng/dry g | |
| Dibenzothiophene | NA | 1 | 1 | 5 | ng/dry g | J |
| Fluoranthene | NA | 47.7 | 1 | 5 | ng/dry g | |
| Fluorene | NA | 4.5 | 1 | 5 | ng/dry g | J |
| Indeno[1,2,3-c,d]pyrene | NA | 63.8 | 1 | 5 | ng/dry g | |
| Naphthalene | NA | 1.7 | 1 | 5 | ng/dry g | J |
| Perylene | NA | 24 | 1 | 5 | ng/dry g | |
| Phenanthrene | NA | 27.5 | 1 | 5 | ng/dry g | |
| Pyrene | NA | 40 | 1 | 5 | ng/dry g | |



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ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|----------------------------|-------------------|-------------------------|-----|----|---------------------------------|----------------------------|
| Sample ID: 21751-R1 | B13-8399 | Matrix: Sediment | | | Sampled: 12-Jul-13 13:55 | Received: 13-Jul-13 |
| | Method: EPA 8270C | Batch ID: O-6005 | | | Prepared: 24-Aug-13 | Analyzed: 06-Sep-13 |
| (d10-Acenaphthene) | NA | 68 | | | % Recovery | |
| (d10-Phenanthrene) | NA | 80 | | | % Recovery | |
| (d12-Chrysene) | NA | 69 | | | % Recovery | |
| (d8-Naphthalene) | NA | 45 | | | % Recovery | |
| 1-Methylnaphthalene | NA | 1.6 | 1 | 5 | ng/dry g | J |
| 1-Methylphenanthrene | NA | 16.1 | 1 | 5 | ng/dry g | |
| 2,3,5-Trimethylnaphthalene | NA | ND | 1 | 5 | ng/dry g | |
| 2,6-Dimethylnaphthalene | NA | 2.1 | 1 | 5 | ng/dry g | J |
| 2-Methylnaphthalene | NA | 4.2 | 1 | 5 | ng/dry g | J |
| Acenaphthene | NA | 32.2 | 1 | 5 | ng/dry g | |
| Acenaphthylene | NA | 3.1 | 1 | 5 | ng/dry g | J |
| Anthracene | NA | 91 | 1 | 5 | ng/dry g | |
| Benz[a]anthracene | NA | 53.6 | 1 | 5 | ng/dry g | |
| Benzo[a]pyrene | NA | 63.9 | 1 | 5 | ng/dry g | |
| Benzo[b]fluoranthene | NA | 43.5 | 1 | 5 | ng/dry g | |
| Benzo[e]pyrene | NA | 30.1 | 1 | 5 | ng/dry g | |
| Benzo[g,h,i]perylene | NA | 36.2 | 1 | 5 | ng/dry g | |
| Benzo[k]fluoranthene | NA | 26.8 | 1 | 5 | ng/dry g | |
| Biphenyl | NA | 1.7 | 1 | 5 | ng/dry g | J |
| Chrysene | NA | 45 | 1 | 5 | ng/dry g | |
| Dibenz[a,h]anthracene | NA | 17.6 | 1 | 5 | ng/dry g | |
| Dibenzothiophene | NA | 6 | 1 | 5 | ng/dry g | |
| Fluoranthene | NA | 356.1 | 1 | 5 | ng/dry g | |
| Fluorene | NA | 8.8 | 1 | 5 | ng/dry g | |
| Indeno[1,2,3-c,d]pyrene | NA | 62.1 | 1 | 5 | ng/dry g | |
| Naphthalene | NA | 22.6 | 1 | 5 | ng/dry g | |
| Perylene | NA | 22.6 | 1 | 5 | ng/dry g | |
| Phenanthrene | NA | 13.7 | 1 | 5 | ng/dry g | |
| Pyrene | NA | 234.6 | 1 | 5 | ng/dry g | |



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ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|----------------------------|-------------------|-------------------------|-----|----|------------|---------|
| Sample ID: 21752-R1 | B13-8384 | Matrix: Sediment | | | | |
| | Method: EPA 8270C | Batch ID: O-6005 | | | | |
| | | | | | | |
| (d10-Acenaphthene) | NA | 56 | | | % Recovery | |
| (d10-Phenanthrene) | NA | 77 | | | % Recovery | |
| (d12-Chrysene) | NA | 76 | | | % Recovery | |
| (d8-Naphthalene) | NA | 41 | | | % Recovery | |
| 1-Methylnaphthalene | NA | ND | 1 | 5 | ng/dry g | |
| 1-Methylphenanthrene | NA | ND | 1 | 5 | ng/dry g | |
| 2,3,5-Trimethylnaphthalene | NA | ND | 1 | 5 | ng/dry g | |
| 2,6-Dimethylnaphthalene | NA | ND | 1 | 5 | ng/dry g | |
| 2-Methylnaphthalene | NA | ND | 1 | 5 | ng/dry g | |
| Acenaphthene | NA | ND | 1 | 5 | ng/dry g | |
| Acenaphthylene | NA | 1.7 | 1 | 5 | ng/dry g | J |
| Anthracene | NA | 8.3 | 1 | 5 | ng/dry g | |
| Benz[a]anthracene | NA | 7.9 | 1 | 5 | ng/dry g | |
| Benzo[a]pyrene | NA | 9.6 | 1 | 5 | ng/dry g | |
| Benzo[b]fluoranthene | NA | 9 | 1 | 5 | ng/dry g | |
| Benzo[e]pyrene | NA | 5.9 | 1 | 5 | ng/dry g | |
| Benzo[g,h,i]perylene | NA | 7.5 | 1 | 5 | ng/dry g | |
| Benzo[k]fluoranthene | NA | 5.2 | 1 | 5 | ng/dry g | |
| Biphenyl | NA | ND | 1 | 5 | ng/dry g | |
| Chrysene | NA | 12.9 | 1 | 5 | ng/dry g | |
| Dibenz[a,h]anthracene | NA | 3.2 | 1 | 5 | ng/dry g | J |
| Dibenzothiophene | NA | ND | 1 | 5 | ng/dry g | |
| Fluoranthene | NA | 8.7 | 1 | 5 | ng/dry g | |
| Fluorene | NA | ND | 1 | 5 | ng/dry g | |
| Indeno[1,2,3-c,d]pyrene | NA | 12.7 | 1 | 5 | ng/dry g | |
| Naphthalene | NA | ND | 1 | 5 | ng/dry g | |
| Perylene | NA | 8.1 | 1 | 5 | ng/dry g | |
| Phenanthrene | NA | 2.7 | 1 | 5 | ng/dry g | J |
| Pyrene | NA | 6.7 | 1 | 5 | ng/dry g | |



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ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|----------------------------|-------------------|-------------------------|-----|----|------------|---------|
| Sample ID: 21753-R1 | B13-8397 | Matrix: Sediment | | | | |
| | Method: EPA 8270C | Batch ID: O-6001 | | | | |
| | | | | | | |
| (d10-Acenaphthene) | NA | 69 | | | % Recovery | |
| (d10-Phenanthrene) | NA | 91 | | | % Recovery | |
| (d12-Chrysene) | NA | 148 | | | % Recovery | |
| (d8-Naphthalene) | NA | 47 | | | % Recovery | |
| 1-Methylnaphthalene | NA | 2 | 1 | 5 | ng/dry g | J |
| 1-Methylphenanthrene | NA | 4 | 1 | 5 | ng/dry g | J |
| 2,3,5-Trimethylnaphthalene | NA | ND | 1 | 5 | ng/dry g | |
| 2,6-Dimethylnaphthalene | NA | 2.3 | 1 | 5 | ng/dry g | J |
| 2-Methylnaphthalene | NA | 3.9 | 1 | 5 | ng/dry g | J |
| Acenaphthene | NA | 1.8 | 1 | 5 | ng/dry g | J |
| Acenaphthylene | NA | 7.6 | 1 | 5 | ng/dry g | |
| Anthracene | NA | 27.7 | 1 | 5 | ng/dry g | |
| Benz[a]anthracene | NA | 44.3 | 1 | 5 | ng/dry g | |
| Benzo[a]pyrene | NA | 117.5 | 1 | 5 | ng/dry g | |
| Benzo[b]fluoranthene | NA | 107.9 | 1 | 5 | ng/dry g | |
| Benzo[e]pyrene | NA | 77.5 | 1 | 5 | ng/dry g | |
| Benzo[g,h,i]perylene | NA | 56.9 | 1 | 5 | ng/dry g | |
| Benzo[k]fluoranthene | NA | 63.4 | 1 | 5 | ng/dry g | |
| Biphenyl | NA | 1 | 1 | 5 | ng/dry g | J |
| Chrysene | NA | 76.3 | 1 | 5 | ng/dry g | |
| Dibenz[a,h]anthracene | NA | 27.9 | 1 | 5 | ng/dry g | |
| Dibenzothiophene | NA | 2.1 | 1 | 5 | ng/dry g | J |
| Fluoranthene | NA | 53.4 | 1 | 5 | ng/dry g | |
| Fluorene | NA | 2 | 1 | 5 | ng/dry g | J |
| Indeno[1,2,3-c,d]pyrene | NA | 74.8 | 1 | 5 | ng/dry g | |
| Naphthalene | NA | 4.2 | 1 | 5 | ng/dry g | J |
| Perylene | NA | 31.9 | 1 | 5 | ng/dry g | |
| Phenanthrene | NA | 18 | 1 | 5 | ng/dry g | |
| Pyrene | NA | 61.5 | 1 | 5 | ng/dry g | |



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ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|----------------------------|-------------------|-------------------------|-----|----|---------------------|----------------------------|
| Sample ID: 21754-R1 | B13-8396 | Matrix: Sediment | | | 9:58 | Received: 13-Jul-13 |
| | Method: EPA 8270C | Batch ID: O-6003 | | | Prepared: 15-Aug-13 | Analyzed: 09-Sep-13 |
| (d10-Acenaphthene) | NA | 72 | | | % Recovery | |
| (d10-Phenanthrene) | NA | 89 | | | % Recovery | |
| (d12-Chrysene) | NA | 120 | | | % Recovery | |
| (d8-Naphthalene) | NA | 52 | | | % Recovery | |
| 1-Methylnaphthalene | NA | ND | 1 | 5 | ng/dry g | |
| 1-Methylphenanthrene | NA | 1.8 | 1 | 5 | ng/dry g | J |
| 2,3,5-Trimethylnaphthalene | NA | ND | 1 | 5 | ng/dry g | |
| 2,6-Dimethylnaphthalene | NA | ND | 1 | 5 | ng/dry g | |
| 2-Methylnaphthalene | NA | ND | 1 | 5 | ng/dry g | |
| Acenaphthene | NA | 1.1 | 1 | 5 | ng/dry g | J |
| Acenaphthylene | NA | 2.9 | 1 | 5 | ng/dry g | J |
| Anthracene | NA | 15.3 | 1 | 5 | ng/dry g | |
| Benz[a]anthracene | NA | 20.5 | 1 | 5 | ng/dry g | |
| Benzo[a]pyrene | NA | 42.6 | 1 | 5 | ng/dry g | |
| Benzo[b]fluoranthene | NA | 40.8 | 1 | 5 | ng/dry g | |
| Benzo[e]pyrene | NA | 19.3 | 1 | 5 | ng/dry g | |
| Benzo[g,h,i]perylene | NA | 15.5 | 1 | 5 | ng/dry g | |
| Benzo[k]fluoranthene | NA | 21.8 | 1 | 5 | ng/dry g | |
| Biphenyl | NA | ND | 1 | 5 | ng/dry g | |
| Chrysene | NA | 35.5 | 1 | 5 | ng/dry g | |
| Dibenz[a,h]anthracene | NA | 9.6 | 1 | 5 | ng/dry g | |
| Dibenzothiophene | NA | ND | 1 | 5 | ng/dry g | |
| Fluoranthene | NA | 13.8 | 1 | 5 | ng/dry g | |
| Fluorene | NA | 1.1 | 1 | 5 | ng/dry g | J |
| Indeno[1,2,3-c,d]pyrene | NA | 27.9 | 1 | 5 | ng/dry g | |
| Naphthalene | NA | 1.3 | 1 | 5 | ng/dry g | J |
| Perylene | NA | 14.2 | 1 | 5 | ng/dry g | |
| Phenanthrene | NA | 5.5 | 1 | 5 | ng/dry g | |
| Pyrene | NA | 12.4 | 1 | 5 | ng/dry g | |



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ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|----------------------------|-------------------|-------------------------|-----|----|-----------------------------|----------------------------|
| Sample ID: 21755-R1 | B13-8340 | Matrix: Sediment | | | Sampled: 12-Jul-13 | Received: 13-Jul-13 |
| | Method: EPA 8270C | Batch ID: O-6003 | | | 8:19 Prepared: 15-Aug-13 | Analyzed: 09-Sep-13 |
| (d10-Acenaphthene) | NA | 81 | | | % Recovery | |
| (d10-Phenanthrene) | NA | 92 | | | % Recovery | |
| (d12-Chrysene) | NA | 114 | | | % Recovery | |
| (d8-Naphthalene) | NA | 59 | | | % Recovery | |
| 1-Methylnaphthalene | NA | ND | 1 | 5 | ng/dry g | |
| 1-Methylphenanthrene | NA | 1.2 | 1 | 5 | ng/dry g | J |
| 2,3,5-Trimethylnaphthalene | NA | ND | 1 | 5 | ng/dry g | |
| 2,6-Dimethylnaphthalene | NA | 1 | 1 | 5 | ng/dry g | J |
| 2-Methylnaphthalene | NA | ND | 1 | 5 | ng/dry g | |
| Acenaphthene | NA | ND | 1 | 5 | ng/dry g | |
| Acenaphthylene | NA | 2.1 | 1 | 5 | ng/dry g | J |
| Anthracene | NA | 8.7 | 1 | 5 | ng/dry g | |
| Benz[a]anthracene | NA | 10.7 | 1 | 5 | ng/dry g | |
| Benzo[a]pyrene | NA | 20.7 | 1 | 5 | ng/dry g | |
| Benzo[b]fluoranthene | NA | 18.7 | 1 | 5 | ng/dry g | |
| Benzo[e]pyrene | NA | 9.2 | 1 | 5 | ng/dry g | |
| Benzo[g,h,i]perylene | NA | 8.9 | 1 | 5 | ng/dry g | |
| Benzo[k]fluoranthene | NA | 9.3 | 1 | 5 | ng/dry g | |
| Biphenyl | NA | ND | 1 | 5 | ng/dry g | |
| Chrysene | NA | 16.8 | 1 | 5 | ng/dry g | |
| Dibenz[a,h]anthracene | NA | 5 | 1 | 5 | ng/dry g | |
| Dibenzothiophene | NA | ND | 1 | 5 | ng/dry g | |
| Fluoranthene | NA | 17.9 | 1 | 5 | ng/dry g | |
| Fluorene | NA | 1 | 1 | 5 | ng/dry g | J |
| Indeno[1,2,3-c,d]pyrene | NA | 12.9 | 1 | 5 | ng/dry g | |
| Naphthalene | NA | 1.3 | 1 | 5 | ng/dry g | J |
| Perylene | NA | 12.4 | 1 | 5 | ng/dry g | |
| Phenanthrene | NA | 3.4 | 1 | 5 | ng/dry g | J |
| Pyrene | NA | 14.2 | 1 | 5 | ng/dry g | |



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ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|----------------------------|-------------------|-------------------------|-----|---------------------------|--------------|----------------------------|
| Sample ID: 21756-R1 | B13-8347 | Matrix: Sediment | | | | |
| | Method: EPA 8270C | Batch ID: O-6003 | | | | |
| | | | | Sampled: 12-Jul-13 | 15:41 | Received: 13-Jul-13 |
| | | | | Prepared: 15-Aug-13 | | Analyzed: 09-Sep-13 |
| (d10-Acenaphthene) | NA | 75 | | | % Recovery | |
| (d10-Phenanthrene) | NA | 91 | | | % Recovery | |
| (d12-Chrysene) | NA | 108 | | | % Recovery | |
| (d8-Naphthalene) | NA | 54 | | | % Recovery | |
| 1-Methylnaphthalene | NA | ND | 1 | 5 | ng/dry g | |
| 1-Methylphenanthrene | NA | ND | 1 | 5 | ng/dry g | |
| 2,3,5-Trimethylnaphthalene | NA | ND | 1 | 5 | ng/dry g | |
| 2,6-Dimethylnaphthalene | NA | ND | 1 | 5 | ng/dry g | |
| 2-Methylnaphthalene | NA | ND | 1 | 5 | ng/dry g | |
| Acenaphthene | NA | ND | 1 | 5 | ng/dry g | |
| Acenaphthylene | NA | ND | 1 | 5 | ng/dry g | |
| Anthracene | NA | 3.5 | 1 | 5 | ng/dry g | J |
| Benz[a]anthracene | NA | 7 | 1 | 5 | ng/dry g | |
| Benzo[a]pyrene | NA | 18.3 | 1 | 5 | ng/dry g | |
| Benzo[b]fluoranthene | NA | 16.1 | 1 | 5 | ng/dry g | |
| Benzo[e]pyrene | NA | 6.7 | 1 | 5 | ng/dry g | |
| Benzo[g,h,i]perylene | NA | 7.6 | 1 | 5 | ng/dry g | |
| Benzo[k]fluoranthene | NA | 7.4 | 1 | 5 | ng/dry g | |
| Biphenyl | NA | ND | 1 | 5 | ng/dry g | |
| Chrysene | NA | 9.9 | 1 | 5 | ng/dry g | |
| Dibenz[a,h]anthracene | NA | 7 | 1 | 5 | ng/dry g | |
| Dibenzothiophene | NA | ND | 1 | 5 | ng/dry g | |
| Fluoranthene | NA | 2.9 | 1 | 5 | ng/dry g | J |
| Fluorene | NA | ND | 1 | 5 | ng/dry g | |
| Indeno[1,2,3-c,d]pyrene | NA | 14.6 | 1 | 5 | ng/dry g | |
| Naphthalene | NA | ND | 1 | 5 | ng/dry g | |
| Perylene | NA | 10.3 | 1 | 5 | ng/dry g | |
| Phenanthrene | NA | 1.8 | 1 | 5 | ng/dry g | J |
| Pyrene | NA | 3.5 | 1 | 5 | ng/dry g | J |



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Polynuclear Aromatic Hydrocarbons

ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|----------------------------|-------------------|-------------------------|-----|---------------------------|--------------|----------------------------|
| Sample ID: 21757-R1 | TMDL6-CP | Matrix: Sediment | | | | |
| | Method: EPA 8270C | Batch ID: O-6003 | | | | |
| | | | | Sampled: 12-Jul-13 | 15:41 | Received: 13-Jul-13 |
| | | | | Prepared: 15-Aug-13 | | Analyzed: 09-Sep-13 |
| (d10-Acenaphthene) | NA | 77 | | | % Recovery | |
| (d10-Phenanthrene) | NA | 91 | | | % Recovery | |
| (d12-Chrysene) | NA | 120 | | | % Recovery | |
| (d8-Naphthalene) | NA | 59 | | | % Recovery | |
| 1-Methylnaphthalene | NA | ND | 1 | 5 | ng/dry g | |
| 1-Methylphenanthrene | NA | ND | 1 | 5 | ng/dry g | |
| 2,3,5-Trimethylnaphthalene | NA | ND | 1 | 5 | ng/dry g | |
| 2,6-Dimethylnaphthalene | NA | ND | 1 | 5 | ng/dry g | |
| 2-Methylnaphthalene | NA | ND | 1 | 5 | ng/dry g | |
| Acenaphthene | NA | ND | 1 | 5 | ng/dry g | |
| Acenaphthylene | NA | ND | 1 | 5 | ng/dry g | |
| Anthracene | NA | 7.1 | 1 | 5 | ng/dry g | |
| Benz[a]anthracene | NA | 2.6 | 1 | 5 | ng/dry g | J |
| Benzo[a]pyrene | NA | 9.7 | 1 | 5 | ng/dry g | |
| Benzo[b]fluoranthene | NA | 6.3 | 1 | 5 | ng/dry g | |
| Benzo[e]pyrene | NA | 2.8 | 1 | 5 | ng/dry g | J |
| Benzo[g,h,i]perylene | NA | 3.8 | 1 | 5 | ng/dry g | J |
| Benzo[k]fluoranthene | NA | 3 | 1 | 5 | ng/dry g | J |
| Biphenyl | NA | ND | 1 | 5 | ng/dry g | |
| Chrysene | NA | 4.7 | 1 | 5 | ng/dry g | J |
| Dibenz[a,h]anthracene | NA | 3.3 | 1 | 5 | ng/dry g | J |
| Dibenzothiophene | NA | ND | 1 | 5 | ng/dry g | |
| Fluoranthene | NA | 2.4 | 1 | 5 | ng/dry g | J |
| Fluorene | NA | ND | 1 | 5 | ng/dry g | |
| Indeno[1,2,3-c,d]pyrene | NA | 6.7 | 1 | 5 | ng/dry g | |
| Naphthalene | NA | ND | 1 | 5 | ng/dry g | |
| Perylene | NA | 3.7 | 1 | 5 | ng/dry g | J |
| Phenanthrene | NA | 1.1 | 1 | 5 | ng/dry g | J |
| Pyrene | NA | 3.7 | 1 | 5 | ng/dry g | J |



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CA ELAP #2769

Polynuclear Aromatic Hydrocarbons

ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|----------------------------|-------------------|-------------------------|-----|----|------------|---------|
| Sample ID: 21758-R1 | TMDL4-CS | Matrix: Sediment | | | | |
| | Method: EPA 8270C | Batch ID: O-6003 | | | | |
| | | | | | | |
| (d10-Acenaphthene) | NA | 78 | | | % Recovery | |
| (d10-Phenanthrene) | NA | 90 | | | % Recovery | |
| (d12-Chrysene) | NA | 116 | | | % Recovery | |
| (d8-Naphthalene) | NA | 53 | | | % Recovery | |
| 1-Methylnaphthalene | NA | 3 | 1 | 5 | ng/dry g | J |
| 1-Methylphenanthrene | NA | 9.8 | 1 | 5 | ng/dry g | |
| 2,3,5-Trimethylnaphthalene | NA | 2.6 | 1 | 5 | ng/dry g | J |
| 2,6-Dimethylnaphthalene | NA | 5 | 1 | 5 | ng/dry g | |
| 2-Methylnaphthalene | NA | 6.6 | 1 | 5 | ng/dry g | |
| Acenaphthene | NA | 5 | 1 | 5 | ng/dry g | |
| Acenaphthylene | NA | 5.7 | 1 | 5 | ng/dry g | |
| Anthracene | NA | 54.1 | 1 | 5 | ng/dry g | |
| Benz[a]anthracene | NA | 107.9 | 1 | 5 | ng/dry g | |
| Benzo[a]pyrene | NA | 150.3 | 1 | 5 | ng/dry g | |
| Benzo[b]fluoranthene | NA | 135.3 | 1 | 5 | ng/dry g | |
| Benzo[e]pyrene | NA | 120.7 | 1 | 5 | ng/dry g | |
| Benzo[g,h,i]perylene | NA | 112.8 | 1 | 5 | ng/dry g | |
| Benzo[k]fluoranthene | NA | 81.4 | 1 | 5 | ng/dry g | |
| Biphenyl | NA | 1.5 | 1 | 5 | ng/dry g | J |
| Chrysene | NA | 172.6 | 1 | 5 | ng/dry g | |
| Dibenz[a,h]anthracene | NA | 57.8 | 1 | 5 | ng/dry g | |
| Dibenzothiophene | NA | 6.1 | 1 | 5 | ng/dry g | |
| Fluoranthene | NA | 217.4 | 1 | 5 | ng/dry g | |
| Fluorene | NA | 5.8 | 1 | 5 | ng/dry g | |
| Indeno[1,2,3-c,d]pyrene | NA | 110.6 | 1 | 5 | ng/dry g | |
| Naphthalene | NA | 7.8 | 1 | 5 | ng/dry g | |
| Perylene | NA | 58.9 | 1 | 5 | ng/dry g | |
| Phenanthrene | NA | 70.8 | 1 | 5 | ng/dry g | |
| Pyrene | NA | 229.2 | 1 | 5 | ng/dry g | |



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Polynuclear Aromatic Hydrocarbons

ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|----------------------------|-------------------|-------------------------|-----|----|---------------------|---------------------|
| Sample ID: 21759-R1 | TMDL3-TB | Matrix: Sediment | | | | |
| | Method: EPA 8270C | Batch ID: O-6003 | | | | |
| | | | | | 15:41 | |
| | | | | | Prepared: 15-Aug-13 | |
| | | | | | | Received: 13-Jul-13 |
| | | | | | | Analyzed: 09-Sep-13 |
| (d10-Acenaphthene) | NA | 82 | | | % Recovery | |
| (d10-Phenanthrene) | NA | 92 | | | % Recovery | |
| (d12-Chrysene) | NA | 117 | | | % Recovery | |
| (d8-Naphthalene) | NA | 66 | | | % Recovery | |
| 1-Methylnaphthalene | NA | ND | 1 | 5 | ng/dry g | |
| 1-Methylphenanthrene | NA | ND | 1 | 5 | ng/dry g | |
| 2,3,5-Trimethylnaphthalene | NA | ND | 1 | 5 | ng/dry g | |
| 2,6-Dimethylnaphthalene | NA | ND | 1 | 5 | ng/dry g | |
| 2-Methylnaphthalene | NA | ND | 1 | 5 | ng/dry g | |
| Acenaphthene | NA | ND | 1 | 5 | ng/dry g | |
| Acenaphthylene | NA | ND | 1 | 5 | ng/dry g | |
| Anthracene | NA | 1 | 1 | 5 | ng/dry g | J |
| Benz[a]anthracene | NA | ND | 1 | 5 | ng/dry g | |
| Benzo[a]pyrene | NA | ND | 1 | 5 | ng/dry g | |
| Benzo[b]fluoranthene | NA | 1.8 | 1 | 5 | ng/dry g | J |
| Benzo[e]pyrene | NA | ND | 1 | 5 | ng/dry g | |
| Benzo[g,h,i]perylene | NA | 1.6 | 1 | 5 | ng/dry g | J |
| Benzo[k]fluoranthene | NA | ND | 1 | 5 | ng/dry g | |
| Biphenyl | NA | ND | 1 | 5 | ng/dry g | |
| Chrysene | NA | 1.2 | 1 | 5 | ng/dry g | J |
| Dibenz[a,h]anthracene | NA | ND | 1 | 5 | ng/dry g | |
| Dibenzothiophene | NA | ND | 1 | 5 | ng/dry g | |
| Fluoranthene | NA | ND | 1 | 5 | ng/dry g | |
| Fluorene | NA | ND | 1 | 5 | ng/dry g | |
| Indeno[1,2,3-c,d]pyrene | NA | 1.8 | 1 | 5 | ng/dry g | J |
| Naphthalene | NA | ND | 1 | 5 | ng/dry g | |
| Perylene | NA | ND | 1 | 5 | ng/dry g | |
| Phenanthrene | NA | ND | 1 | 5 | ng/dry g | |
| Pyrene | NA | ND | 1 | 5 | ng/dry g | |



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Polynuclear Aromatic Hydrocarbons

ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|----------------------------|-------------------|-------------------------|-----|---------------------------|-------------|----------------------------|
| Sample ID: 21760-R1 | B13-8365 | Matrix: Sediment | | | | |
| | Method: EPA 8270C | Batch ID: O-6003 | | | | |
| | | | | Sampled: 13-Jul-13 | 8:37 | Received: 13-Jul-13 |
| | | | | Prepared: 15-Aug-13 | | Analyzed: 09-Sep-13 |
| (d10-Acenaphthene) | NA | 80 | | | % Recovery | |
| (d10-Phenanthrene) | NA | 92 | | | % Recovery | |
| (d12-Chrysene) | NA | 112 | | | % Recovery | |
| (d8-Naphthalene) | NA | 57 | | | % Recovery | |
| 1-Methylnaphthalene | NA | ND | 1 | 5 | ng/dry g | |
| 1-Methylphenanthrene | NA | ND | 1 | 5 | ng/dry g | |
| 2,3,5-Trimethylnaphthalene | NA | ND | 1 | 5 | ng/dry g | |
| 2,6-Dimethylnaphthalene | NA | ND | 1 | 5 | ng/dry g | |
| 2-Methylnaphthalene | NA | ND | 1 | 5 | ng/dry g | |
| Acenaphthene | NA | ND | 1 | 5 | ng/dry g | |
| Acenaphthylene | NA | ND | 1 | 5 | ng/dry g | |
| Anthracene | NA | 1.5 | 1 | 5 | ng/dry g | J |
| Benz[a]anthracene | NA | 1.7 | 1 | 5 | ng/dry g | J |
| Benzo[a]pyrene | NA | 6 | 1 | 5 | ng/dry g | |
| Benzo[b]fluoranthene | NA | 3.7 | 1 | 5 | ng/dry g | J |
| Benzo[e]pyrene | NA | 2.5 | 1 | 5 | ng/dry g | J |
| Benzo[g,h,i]perylene | NA | 3.4 | 1 | 5 | ng/dry g | J |
| Benzo[k]fluoranthene | NA | 2.2 | 1 | 5 | ng/dry g | J |
| Biphenyl | NA | ND | 1 | 5 | ng/dry g | |
| Chrysene | NA | 3.5 | 1 | 5 | ng/dry g | J |
| Dibenz[a,h]anthracene | NA | 2.8 | 1 | 5 | ng/dry g | J |
| Dibenzothiophene | NA | ND | 1 | 5 | ng/dry g | |
| Fluoranthene | NA | 1.5 | 1 | 5 | ng/dry g | J |
| Fluorene | NA | ND | 1 | 5 | ng/dry g | |
| Indeno[1,2,3-c,d]pyrene | NA | 5.4 | 1 | 5 | ng/dry g | |
| Naphthalene | NA | ND | 1 | 5 | ng/dry g | |
| Perylene | NA | 2.7 | 1 | 5 | ng/dry g | J |
| Phenanthrene | NA | ND | 1 | 5 | ng/dry g | |
| Pyrene | NA | 1.8 | 1 | 5 | ng/dry g | J |



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Polynuclear Aromatic Hydrocarbons

ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|----------------------------|-------------------|-------------------------|-----|----|---------------------------------|----------------------------|
| Sample ID: 21761-R1 | B13-8318 | Matrix: Sediment | | | Sampled: 13-Jul-13 10:57 | Received: 13-Jul-13 |
| | Method: EPA 8270C | Batch ID: O-6003 | | | Prepared: 15-Aug-13 | Analyzed: 09-Sep-13 |
| (d10-Acenaphthene) | NA | 72 | | | % Recovery | |
| (d10-Phenanthrene) | NA | 88 | | | % Recovery | |
| (d12-Chrysene) | NA | 113 | | | % Recovery | |
| (d8-Naphthalene) | NA | 48 | | | % Recovery | |
| 1-Methylnaphthalene | NA | ND | 1 | 5 | ng/dry g | |
| 1-Methylphenanthrene | NA | ND | 1 | 5 | ng/dry g | |
| 2,3,5-Trimethylnaphthalene | NA | ND | 1 | 5 | ng/dry g | |
| 2,6-Dimethylnaphthalene | NA | ND | 1 | 5 | ng/dry g | |
| 2-Methylnaphthalene | NA | ND | 1 | 5 | ng/dry g | |
| Acenaphthene | NA | ND | 1 | 5 | ng/dry g | |
| Acenaphthylene | NA | ND | 1 | 5 | ng/dry g | |
| Anthracene | NA | 1.9 | 1 | 5 | ng/dry g | J |
| Benz[a]anthracene | NA | 3.1 | 1 | 5 | ng/dry g | J |
| Benzo[a]pyrene | NA | 7.4 | 1 | 5 | ng/dry g | |
| Benzo[b]fluoranthene | NA | 4.2 | 1 | 5 | ng/dry g | J |
| Benzo[e]pyrene | NA | 2.6 | 1 | 5 | ng/dry g | J |
| Benzo[g,h,i]perylene | NA | 3.3 | 1 | 5 | ng/dry g | J |
| Benzo[k]fluoranthene | NA | 1.9 | 1 | 5 | ng/dry g | J |
| Biphenyl | NA | ND | 1 | 5 | ng/dry g | |
| Chrysene | NA | 4.1 | 1 | 5 | ng/dry g | J |
| Dibenz[a,h]anthracene | NA | 3.1 | 1 | 5 | ng/dry g | J |
| Dibenzothiophene | NA | ND | 1 | 5 | ng/dry g | |
| Fluoranthene | NA | 4.6 | 1 | 5 | ng/dry g | J |
| Fluorene | NA | ND | 1 | 5 | ng/dry g | |
| Indeno[1,2,3-c,d]pyrene | NA | 5.8 | 1 | 5 | ng/dry g | |
| Naphthalene | NA | ND | 1 | 5 | ng/dry g | |
| Perylene | NA | 7.2 | 1 | 5 | ng/dry g | |
| Phenanthrene | NA | 1.4 | 1 | 5 | ng/dry g | J |
| Pyrene | NA | 5.1 | 1 | 5 | ng/dry g | |



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Polynuclear Aromatic Hydrocarbons

ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|----------------------------|-------------------|-------------------------|-----|---------------------|------------|---------------------|
| Sample ID: 21762-R1 | B13-8322 | Matrix: Sediment | | | | |
| | Method: EPA 8270C | Batch ID: O-6003 | | | | |
| | | | | Sampled: 13-Jul-13 | 10:11 | Received: 13-Jul-13 |
| | | | | Prepared: 15-Aug-13 | | Analyzed: 09-Sep-13 |
| (d10-Acenaphthene) | NA | 78 | | | % Recovery | |
| (d10-Phenanthrene) | NA | 94 | | | % Recovery | |
| (d12-Chrysene) | NA | 123 | | | % Recovery | |
| (d8-Naphthalene) | NA | 54 | | | % Recovery | |
| 1-Methylnaphthalene | NA | ND | 1 | 5 | ng/dry g | |
| 1-Methylphenanthrene | NA | 1.2 | 1 | 5 | ng/dry g | J |
| 2,3,5-Trimethylnaphthalene | NA | ND | 1 | 5 | ng/dry g | |
| 2,6-Dimethylnaphthalene | NA | ND | 1 | 5 | ng/dry g | |
| 2-Methylnaphthalene | NA | ND | 1 | 5 | ng/dry g | |
| Acenaphthene | NA | 1.1 | 1 | 5 | ng/dry g | J |
| Acenaphthylene | NA | 1 | 1 | 5 | ng/dry g | J |
| Anthracene | NA | 1.5 | 1 | 5 | ng/dry g | J |
| Benz[a]anthracene | NA | 2.2 | 1 | 5 | ng/dry g | J |
| Benzo[a]pyrene | NA | 6.1 | 1 | 5 | ng/dry g | |
| Benzo[b]fluoranthene | NA | 3.8 | 1 | 5 | ng/dry g | J |
| Benzo[e]pyrene | NA | 1.9 | 1 | 5 | ng/dry g | J |
| Benzo[g,h,i]perylene | NA | 3 | 1 | 5 | ng/dry g | J |
| Benzo[k]fluoranthene | NA | 1.9 | 1 | 5 | ng/dry g | J |
| Biphenyl | NA | ND | 1 | 5 | ng/dry g | |
| Chrysene | NA | 3.1 | 1 | 5 | ng/dry g | J |
| Dibenz[a,h]anthracene | NA | ND | 1 | 5 | ng/dry g | |
| Dibenzothiophene | NA | ND | 1 | 5 | ng/dry g | |
| Fluoranthene | NA | 3 | 1 | 5 | ng/dry g | J |
| Fluorene | NA | ND | 1 | 5 | ng/dry g | |
| Indeno[1,2,3-c,d]pyrene | NA | 4.8 | 1 | 5 | ng/dry g | J |
| Naphthalene | NA | ND | 1 | 5 | ng/dry g | |
| Perylene | NA | 3.7 | 1 | 5 | ng/dry g | J |
| Phenanthrene | NA | 1.5 | 1 | 5 | ng/dry g | J |
| Pyrene | NA | 3.8 | 1 | 5 | ng/dry g | J |



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Polynuclear Aromatic Hydrocarbons

ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|----------------------------|-------------------|-------------------------|-----|---------------------------|-------------|----------------------------|
| Sample ID: 21763-R1 | B13-8333 | Matrix: Sediment | | | | |
| | Method: EPA 8270C | Batch ID: O-6005 | | | | |
| | | | | Sampled: 13-Jul-13 | 7:43 | Received: 13-Jul-13 |
| | | | | Prepared: 24-Aug-13 | | Analyzed: 06-Sep-13 |
| (d10-Acenaphthene) | NA | 83 | | | % Recovery | |
| (d10-Phenanthrene) | NA | 81 | | | % Recovery | |
| (d12-Chrysene) | NA | 74 | | | % Recovery | |
| (d8-Naphthalene) | NA | 64 | | | % Recovery | |
| 1-Methylnaphthalene | NA | ND | 1 | 5 | ng/dry g | |
| 1-Methylphenanthrene | NA | ND | 1 | 5 | ng/dry g | |
| 2,3,5-Trimethylnaphthalene | NA | ND | 1 | 5 | ng/dry g | |
| 2,6-Dimethylnaphthalene | NA | ND | 1 | 5 | ng/dry g | |
| 2-Methylnaphthalene | NA | ND | 1 | 5 | ng/dry g | |
| Acenaphthene | NA | ND | 1 | 5 | ng/dry g | |
| Acenaphthylene | NA | 1.8 | 1 | 5 | ng/dry g | J |
| Anthracene | NA | 3.1 | 1 | 5 | ng/dry g | J |
| Benz[a]anthracene | NA | 6.3 | 1 | 5 | ng/dry g | |
| Benzo[a]pyrene | NA | 5.1 | 1 | 5 | ng/dry g | |
| Benzo[b]fluoranthene | NA | 2.4 | 1 | 5 | ng/dry g | J |
| Benzo[e]pyrene | NA | 2.3 | 1 | 5 | ng/dry g | J |
| Benzo[g,h,i]perylene | NA | 4.5 | 1 | 5 | ng/dry g | J |
| Benzo[k]fluoranthene | NA | 1.6 | 1 | 5 | ng/dry g | J |
| Biphenyl | NA | ND | 1 | 5 | ng/dry g | |
| Chrysene | NA | 5.1 | 1 | 5 | ng/dry g | |
| Dibenz[a,h]anthracene | NA | 1.1 | 1 | 5 | ng/dry g | J |
| Dibenzothiophene | NA | ND | 1 | 5 | ng/dry g | |
| Fluoranthene | NA | 12.6 | 1 | 5 | ng/dry g | |
| Fluorene | NA | ND | 1 | 5 | ng/dry g | |
| Indeno[1,2,3-c,d]pyrene | NA | 5.6 | 1 | 5 | ng/dry g | |
| Naphthalene | NA | ND | 1 | 5 | ng/dry g | |
| Perylene | NA | 3.2 | 1 | 5 | ng/dry g | J |
| Phenanthrene | NA | 1.9 | 1 | 5 | ng/dry g | J |
| Pyrene | NA | 15.4 | 1 | 5 | ng/dry g | |



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Polynuclear Aromatic Hydrocarbons

ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|----------------------------|-------------------|-------------------------|-----|----|---------------------|---------------------|
| Sample ID: 21764-R1 | B13-8356 | Matrix: Sediment | | | | |
| | Method: EPA 8270C | Batch ID: O-6005 | | | | |
| | | | | | 9:22 | Received: 13-Jul-13 |
| | | | | | Prepared: 24-Aug-13 | Analyzed: 06-Sep-13 |
| (d10-Acenaphthene) | NA | 77 | | | % Recovery | |
| (d10-Phenanthrene) | NA | 84 | | | % Recovery | |
| (d12-Chrysene) | NA | 91 | | | % Recovery | |
| (d8-Naphthalene) | NA | 57 | | | % Recovery | |
| 1-Methylnaphthalene | NA | 1.9 | 1 | 5 | ng/dry g | J |
| 1-Methylphenanthrene | NA | 1.9 | 1 | 5 | ng/dry g | J |
| 2,3,5-Trimethylnaphthalene | NA | ND | 1 | 5 | ng/dry g | |
| 2,6-Dimethylnaphthalene | NA | 2.4 | 1 | 5 | ng/dry g | J |
| 2-Methylnaphthalene | NA | 3.9 | 1 | 5 | ng/dry g | J |
| Acenaphthene | NA | ND | 1 | 5 | ng/dry g | |
| Acenaphthylene | NA | ND | 1 | 5 | ng/dry g | |
| Anthracene | NA | 6.6 | 1 | 5 | ng/dry g | |
| Benz[a]anthracene | NA | 15.7 | 1 | 5 | ng/dry g | |
| Benzo[a]pyrene | NA | 21.4 | 1 | 5 | ng/dry g | |
| Benzo[b]fluoranthene | NA | 9 | 1 | 5 | ng/dry g | |
| Benzo[e]pyrene | NA | 16 | 1 | 5 | ng/dry g | |
| Benzo[g,h,i]perylene | NA | 13.1 | 1 | 5 | ng/dry g | |
| Benzo[k]fluoranthene | NA | 4 | 1 | 5 | ng/dry g | J |
| Biphenyl | NA | ND | 1 | 5 | ng/dry g | |
| Chrysene | NA | 20.9 | 1 | 5 | ng/dry g | |
| Dibenz[a,h]anthracene | NA | 8.1 | 1 | 5 | ng/dry g | |
| Dibenzothiophene | NA | 1.6 | 1 | 5 | ng/dry g | J |
| Fluoranthene | NA | 5.9 | 1 | 5 | ng/dry g | |
| Fluorene | NA | ND | 1 | 5 | ng/dry g | |
| Indeno[1,2,3-c,d]pyrene | NA | 6.7 | 1 | 5 | ng/dry g | |
| Naphthalene | NA | 2.8 | 1 | 5 | ng/dry g | J |
| Perylene | NA | 3 | 1 | 5 | ng/dry g | J |
| Phenanthrene | NA | 5.2 | 1 | 5 | ng/dry g | |
| Pyrene | NA | 12.9 | 1 | 5 | ng/dry g | |



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CA ELAP #2769

Pyrethroids

ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|---------|----------|--------|-----|----|-------|---------|
|---------|----------|--------|-----|----|-------|---------|

Sample ID: 21733-R1

B13-8382

Method: EPA 8270C-NCI

Matrix: Sediment

Batch ID: O-6001

Sampled: 10-Jul-13

11:04

Received: 13-Jul-13

Prepared: 09-Aug-13

Analyzed: 23-Aug-13

| | | | | | | |
|--------------------|----|----|------|-----|----------|--|
| Allethrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Bifenthrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Cyfluthrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Cypermethrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Esfenvalerate | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Fenvalerate | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Fluvalinate | NA | ND | 0.25 | 0.5 | ng/dry g | |
| L-Cyhalothrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Permethrin, cis- | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Permethrin, trans- | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Prallethrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Resmethrin | NA | ND | 0.25 | 0.5 | ng/dry g | |

Sample ID: 21734-R1

B13-8374

Method: EPA 8270C-NCI

Matrix: Sediment

Batch ID: O-6001

Sampled: 10-Jul-13

14:28

Received: 13-Jul-13

Prepared: 09-Aug-13

Analyzed: 23-Aug-13

| | | | | | | |
|--------------------|----|----|------|-----|----------|--|
| Allethrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Bifenthrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Cyfluthrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Cypermethrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Esfenvalerate | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Fenvalerate | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Fluvalinate | NA | ND | 0.25 | 0.5 | ng/dry g | |
| L-Cyhalothrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Permethrin, cis- | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Permethrin, trans- | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Prallethrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Resmethrin | NA | ND | 0.25 | 0.5 | ng/dry g | |

Sample ID: 21735-R1

B13-8371

Method: EPA 8270C-NCI

Matrix: Sediment

Batch ID: O-6001

Sampled: 10-Jul-13

12:03

Received: 13-Jul-13

Prepared: 09-Aug-13

Analyzed: 23-Aug-13



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CA ELAP #2769

Pyrethroids

ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|--------------------|----------|--------|------|-----|----------|---------|
| Allethrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Bifenthrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Cyfluthrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Cypermethrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Esfenvalerate | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Fenvalerate | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Fluvalinate | NA | ND | 0.25 | 0.5 | ng/dry g | |
| L-Cyhalothrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Permethrin, cis- | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Permethrin, trans- | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Prallethrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Resmethrin | NA | ND | 0.25 | 0.5 | ng/dry g | |

Sample ID: 21736-R1

B13-8363

Method: EPA 8270C-NCI

Matrix: Sediment

Batch ID: O-6001

Sampled: 10-Jul-13

13:38

Prepared: 09-Aug-13

Received: 13-Jul-13

Analyzed: 23-Aug-13

| | | | | | | |
|--------------------|----|----|------|-----|----------|--|
| Allethrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Bifenthrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Cyfluthrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Cypermethrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Esfenvalerate | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Fenvalerate | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Fluvalinate | NA | ND | 0.25 | 0.5 | ng/dry g | |
| L-Cyhalothrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Permethrin, cis- | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Permethrin, trans- | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Prallethrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Resmethrin | NA | ND | 0.25 | 0.5 | ng/dry g | |

Sample ID: 21737-R1

B13-8360

Method: EPA 8270C-NCI

Matrix: Sediment

Batch ID: O-6001

Sampled: 10-Jul-13

15:30

Prepared: 09-Aug-13

Received: 13-Jul-13

Analyzed: 23-Aug-13

| | | | | | | |
|------------|----|----|------|-----|----------|--|
| Allethrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Bifenthrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Cyfluthrin | NA | ND | 0.25 | 0.5 | ng/dry g | |



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Pyrethroids

ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|--------------------|----------|--------|------|-----|----------|---------|
| Cypermethrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Esfenvalerate | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Fenvalerate | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Fluvalinate | NA | ND | 0.25 | 0.5 | ng/dry g | |
| L-Cyhalothrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Permethrin, cis- | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Permethrin, trans- | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Prallethrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Resmethrin | NA | ND | 0.25 | 0.5 | ng/dry g | |

Sample ID: 21738-R1

B13-8349

Method: EPA 8270C-NCI

Matrix: Sediment

Batch ID: O-6001

Sampled: 10-Jul-13

9:51

Prepared: 09-Aug-13

Received: 13-Jul-13

Analyzed: 23-Aug-13

| | | | | | | |
|--------------------|----|----|------|-----|----------|--|
| Allethrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Bifenthrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Cyfluthrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Cypermethrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Esfenvalerate | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Fenvalerate | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Fluvalinate | NA | ND | 0.25 | 0.5 | ng/dry g | |
| L-Cyhalothrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Permethrin, cis- | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Permethrin, trans- | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Prallethrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Resmethrin | NA | ND | 0.25 | 0.5 | ng/dry g | |

Sample ID: 21739-R1

B13-8326

Method: EPA 8270C-NCI

Matrix: Sediment

Batch ID: O-6001

Sampled: 10-Jul-13

8:28

Prepared: 09-Aug-13

Received: 13-Jul-13

Analyzed: 23-Aug-13

| | | | | | | |
|---------------|----|----|------|-----|----------|--|
| Allethrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Bifenthrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Cyfluthrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Cypermethrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Esfenvalerate | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Fenvalerate | NA | ND | 0.25 | 0.5 | ng/dry g | |



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Pyrethroids

ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|--------------------|----------|--------|------|-----|----------|---------|
| Fluvalinate | NA | ND | 0.25 | 0.5 | ng/dry g | |
| L-Cyhalothrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Permethrin, cis- | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Permethrin, trans- | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Prallethrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Resmethrin | NA | ND | 0.25 | 0.5 | ng/dry g | |

Sample ID: 21740-R1

B13-8367

Method: EPA 8270C-NCI

Matrix: Sediment

Batch ID: O-6001

Sampled: 11-Jul-13

14:10

Prepared: 09-Aug-13

Received: 13-Jul-13

Analyzed: 23-Aug-13

| | | | | | | |
|--------------------|----|----|------|-----|----------|--|
| Allethrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Bifenthrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Cyfluthrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Cypermethrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Esfenvalerate | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Fenvalerate | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Fluvalinate | NA | ND | 0.25 | 0.5 | ng/dry g | |
| L-Cyhalothrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Permethrin, cis- | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Permethrin, trans- | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Prallethrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Resmethrin | NA | ND | 0.25 | 0.5 | ng/dry g | |

Sample ID: 21741-R1

B13-8302

Method: EPA 8270C-NCI

Matrix: Sediment

Batch ID: O-6001

Sampled: 11-Jul-13

9:29

Prepared: 09-Aug-13

Received: 13-Jul-13

Analyzed: 23-Aug-13

| | | | | | | |
|------------------|----|----|------|-----|----------|--|
| Allethrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Bifenthrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Cyfluthrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Cypermethrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Esfenvalerate | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Fenvalerate | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Fluvalinate | NA | ND | 0.25 | 0.5 | ng/dry g | |
| L-Cyhalothrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Permethrin, cis- | NA | ND | 0.25 | 0.5 | ng/dry g | |



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Pyrethroids

ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|--------------------|----------|--------|------|-----|----------|---------|
| Permethrin, trans- | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Prallethrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Resmethrin | NA | ND | 0.25 | 0.5 | ng/dry g | |

Sample ID: 21742-R1

B13-8304

Method: EPA 8270C-NCI

Matrix: Sediment

Batch ID: O-6001

Sampled: 11-Jul-13

Prepared: 09-Aug-13

16:24

Received: 13-Jul-13

Analyzed: 23-Aug-13

| | | | | | | |
|--------------------|----|----|------|-----|----------|--|
| Allethrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Bifenthrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Cyfluthrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Cypermethrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Esfenvalerate | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Fenvalerate | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Fluvalinate | NA | ND | 0.25 | 0.5 | ng/dry g | |
| L-Cyhalothrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Permethrin, cis- | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Permethrin, trans- | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Prallethrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Resmethrin | NA | ND | 0.25 | 0.5 | ng/dry g | |

Sample ID: 21743-R1

B13-8306

Method: EPA 8270C-NCI

Matrix: Sediment

Batch ID: O-6003

Sampled: 11-Jul-13

Prepared: 15-Aug-13

13:00

Received: 13-Jul-13

Analyzed: 25-Aug-13

| | | | | | | |
|--------------------|----|----|------|-----|----------|--|
| Allethrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Bifenthrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Cyfluthrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Cypermethrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Esfenvalerate | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Fenvalerate | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Fluvalinate | NA | ND | 0.25 | 0.5 | ng/dry g | |
| L-Cyhalothrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Permethrin, cis- | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Permethrin, trans- | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Prallethrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Resmethrin | NA | ND | 0.25 | 0.5 | ng/dry g | |



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Pyrethroids

ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|---------|----------|--------|-----|----|-------|---------|
|---------|----------|--------|-----|----|-------|---------|

Sample ID: 21744-R1

B13-8308

Method: EPA 8270C-NCI

Matrix: Sediment

Batch ID: O-6003

Sampled: 11-Jul-13

17:06

Prepared: 15-Aug-13

Received: 13-Jul-13

Analyzed: 25-Aug-13

| | | | | | | |
|--------------------|----|----|------|-----|----------|--|
| Allethrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Bifenthrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Cyfluthrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Cypermethrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Esfenvalerate | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Fenvalerate | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Fluvalinate | NA | ND | 0.25 | 0.5 | ng/dry g | |
| L-Cyhalothrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Permethrin, cis- | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Permethrin, trans- | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Prallethrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Resmethrin | NA | ND | 0.25 | 0.5 | ng/dry g | |

Sample ID: 21745-R1

B13-8310

Method: EPA 8270C-NCI

Matrix: Sediment

Batch ID: O-6005

Sampled: 11-Jul-13

17:51

Prepared: 24-Aug-13

Received: 13-Jul-13

Analyzed: 06-Sep-13

| | | | | | | |
|--------------------|----|----|------|-----|----------|--|
| Allethrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Bifenthrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Cyfluthrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Cypermethrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Esfenvalerate | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Fenvalerate | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Fluvalinate | NA | ND | 0.25 | 0.5 | ng/dry g | |
| L-Cyhalothrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Permethrin, cis- | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Permethrin, trans- | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Prallethrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Resmethrin | NA | ND | 0.25 | 0.5 | ng/dry g | |

Sample ID: 21746-R1

B13-8316

Method: EPA 8270C-NCI

Matrix: Sediment

Batch ID: O-6005

Sampled: 11-Jul-13

10:23

Prepared: 24-Aug-13

Received: 13-Jul-13

Analyzed: 06-Sep-13



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Pyrethroids

ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|--------------------|----------|--------|------|-----|----------|---------|
| Allethrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Bifenthrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Cyfluthrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Cypermethrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Esfenvalerate | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Fenvalerate | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Fluvalinate | NA | ND | 0.25 | 0.5 | ng/dry g | |
| L-Cyhalothrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Permethrin, cis- | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Permethrin, trans- | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Prallethrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Resmethrin | NA | ND | 0.25 | 0.5 | ng/dry g | |

Sample ID: 21750-R1

B13-8401

Method: EPA 8270C-NCI

Matrix: Sediment

Batch ID: O-6005

Sampled: 12-Jul-13

14:42

Prepared: 24-Aug-13

Received: 13-Jul-13

Analyzed: 06-Sep-13

| | | | | | | |
|--------------------|----|----|------|-----|----------|--|
| Allethrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Bifenthrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Cyfluthrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Cypermethrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Esfenvalerate | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Fenvalerate | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Fluvalinate | NA | ND | 0.25 | 0.5 | ng/dry g | |
| L-Cyhalothrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Permethrin, cis- | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Permethrin, trans- | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Prallethrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Resmethrin | NA | ND | 0.25 | 0.5 | ng/dry g | |

Sample ID: 21751-R1

B13-8399

Method: EPA 8270C-NCI

Matrix: Sediment

Batch ID: O-6005

Sampled: 12-Jul-13

13:55

Prepared: 24-Aug-13

Received: 13-Jul-13

Analyzed: 06-Sep-13

| | | | | | | |
|------------|----|----|------|-----|----------|--|
| Allethrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Bifenthrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Cyfluthrin | NA | ND | 0.25 | 0.5 | ng/dry g | |



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Pyrethroids

ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|--------------------|----------|--------|------|-----|----------|---------|
| Cypermethrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Esfenvalerate | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Fenvalerate | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Fluvalinate | NA | ND | 0.25 | 0.5 | ng/dry g | |
| L-Cyhalothrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Permethrin, cis- | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Permethrin, trans- | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Prallethrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Resmethrin | NA | ND | 0.25 | 0.5 | ng/dry g | |

Sample ID: 21752-R1

B13-8384

Method: EPA 8270C-NCI

Matrix: Sediment

Batch ID: O-6005

Sampled: 12-Jul-13

9:13

Prepared: 24-Aug-13

Received: 13-Jul-13

Analyzed: 06-Sep-13

| | | | | | | |
|--------------------|----|----|------|-----|----------|--|
| Allethrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Bifenthrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Cyfluthrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Cypermethrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Esfenvalerate | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Fenvalerate | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Fluvalinate | NA | ND | 0.25 | 0.5 | ng/dry g | |
| L-Cyhalothrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Permethrin, cis- | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Permethrin, trans- | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Prallethrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Resmethrin | NA | ND | 0.25 | 0.5 | ng/dry g | |

Sample ID: 21753-R1

B13-8397

Method: EPA 8270C-NCI

Matrix: Sediment

Batch ID: O-6001

Sampled: 12-Jul-13

11:20

Prepared: 09-Aug-13

Received: 13-Jul-13

Analyzed: 23-Aug-13

| | | | | | | |
|---------------|----|----|------|-----|----------|--|
| Allethrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Bifenthrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Cyfluthrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Cypermethrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Esfenvalerate | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Fenvalerate | NA | ND | 0.25 | 0.5 | ng/dry g | |



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CA ELAP #2769

Pyrethroids

ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|--------------------|----------|--------|------|-----|----------|---------|
| Fluvalinate | NA | ND | 0.25 | 0.5 | ng/dry g | |
| L-Cyhalothrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Permethrin, cis- | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Permethrin, trans- | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Prallethrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Resmethrin | NA | ND | 0.25 | 0.5 | ng/dry g | |

Sample ID: 21754-R1

B13-8396

Method: EPA 8270C-NCI

Matrix: Sediment

Batch ID: O-6003

Sampled: 12-Jul-13

9:58

Prepared: 15-Aug-13

Received: 13-Jul-13

Analyzed: 25-Aug-13

| | | | | | | |
|--------------------|----|----|------|-----|----------|--|
| Allethrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Bifenthrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Cyfluthrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Cypermethrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Esfenvalerate | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Fenvalerate | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Fluvalinate | NA | ND | 0.25 | 0.5 | ng/dry g | |
| L-Cyhalothrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Permethrin, cis- | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Permethrin, trans- | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Prallethrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Resmethrin | NA | ND | 0.25 | 0.5 | ng/dry g | |

Sample ID: 21755-R1

B13-8340

Method: EPA 8270C-NCI

Matrix: Sediment

Batch ID: O-6003

Sampled: 12-Jul-13

8:19

Prepared: 15-Aug-13

Received: 13-Jul-13

Analyzed: 25-Aug-13

| | | | | | | |
|------------------|----|----|------|-----|----------|--|
| Allethrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Bifenthrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Cyfluthrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Cypermethrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Esfenvalerate | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Fenvalerate | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Fluvalinate | NA | ND | 0.25 | 0.5 | ng/dry g | |
| L-Cyhalothrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Permethrin, cis- | NA | ND | 0.25 | 0.5 | ng/dry g | |



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CA ELAP #2769

Pyrethroids

ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|--------------------|----------|--------|------|-----|----------|---------|
| Permethrin, trans- | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Prallethrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Resmethrin | NA | ND | 0.25 | 0.5 | ng/dry g | |

Sample ID: 21756-R1

B13-8347

Method: EPA 8270C-NCI

Matrix: Sediment

Batch ID: O-6003

Sampled: 12-Jul-13

15:41

Prepared: 15-Aug-13

Received: 13-Jul-13

Analyzed: 25-Aug-13

| | | | | | | |
|--------------------|----|----|------|-----|----------|--|
| Allethrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Bifenthrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Cyfluthrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Cypermethrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Esfenvalerate | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Fenvalerate | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Fluvalinate | NA | ND | 0.25 | 0.5 | ng/dry g | |
| L-Cyhalothrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Permethrin, cis- | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Permethrin, trans- | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Prallethrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Resmethrin | NA | ND | 0.25 | 0.5 | ng/dry g | |

Sample ID: 21758-R1

TMDL4-CS

Method: EPA 8270C-NCI

Matrix: Sediment

Batch ID: O-6003

Sampled: 12-Jul-13

12:20

Prepared: 15-Aug-13

Received: 13-Jul-13

Analyzed: 25-Aug-13

| | | | | | | |
|--------------------|----|----|------|-----|----------|--|
| Allethrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Bifenthrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Cyfluthrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Cypermethrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Esfenvalerate | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Fenvalerate | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Fluvalinate | NA | ND | 0.25 | 0.5 | ng/dry g | |
| L-Cyhalothrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Permethrin, cis- | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Permethrin, trans- | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Prallethrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Resmethrin | NA | ND | 0.25 | 0.5 | ng/dry g | |



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Pyrethroids

ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|---|----------|--------|------|-----|----------|---------|
| Sample ID: 21760-R1 B13-8365 Matrix: Sediment Sampled: 13-Jul-13 8:37 Received: 13-Jul-13 Method: EPA 8270C-NCI Batch ID: O-6003 Prepared: 15-Aug-13 Analyzed: 25-Aug-13 | | | | | | |
| Allethrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Bifenthrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Cyfluthrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Cypermethrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Esfenvalerate | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Fenvalerate | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Fluvalinate | NA | ND | 0.25 | 0.5 | ng/dry g | |
| L-Cyhalothrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Permethrin, cis- | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Permethrin, trans- | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Prallethrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Resmethrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Sample ID: 21761-R1 B13-8318 Matrix: Sediment Sampled: 13-Jul-13 10:57 Received: 13-Jul-13 Method: EPA 8270C-NCI Batch ID: O-6003 Prepared: 15-Aug-13 Analyzed: 25-Aug-13 | | | | | | |
| Allethrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Bifenthrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Cyfluthrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Cypermethrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Esfenvalerate | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Fenvalerate | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Fluvalinate | NA | ND | 0.25 | 0.5 | ng/dry g | |
| L-Cyhalothrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Permethrin, cis- | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Permethrin, trans- | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Prallethrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Resmethrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Sample ID: 21762-R1 B13-8322 Matrix: Sediment Sampled: 13-Jul-13 10:11 Received: 13-Jul-13 Method: EPA 8270C-NCI Batch ID: O-6003 Prepared: 15-Aug-13 Analyzed: 25-Aug-13 | | | | | | |



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CA ELAP #2769

Pyrethroids

ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|--------------------|----------|--------|------|-----|----------|---------|
| Allethrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Bifenthrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Cyfluthrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Cypermethrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Esfenvalerate | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Fenvalerate | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Fluvalinate | NA | ND | 0.25 | 0.5 | ng/dry g | |
| L-Cyhalothrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Permethrin, cis- | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Permethrin, trans- | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Prallethrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Resmethrin | NA | ND | 0.25 | 0.5 | ng/dry g | |

Sample ID: 21763-R1

B13-8333

Method: EPA 8270C-NCI

Matrix: Sediment

Batch ID: O-6005

Sampled: 13-Jul-13

7:43

Prepared: 24-Aug-13

Received: 13-Jul-13

Analyzed: 06-Sep-13

| | | | | | | |
|--------------------|----|----|------|-----|----------|--|
| Allethrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Bifenthrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Cyfluthrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Cypermethrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Esfenvalerate | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Fenvalerate | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Fluvalinate | NA | ND | 0.25 | 0.5 | ng/dry g | |
| L-Cyhalothrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Permethrin, cis- | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Permethrin, trans- | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Prallethrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Resmethrin | NA | ND | 0.25 | 0.5 | ng/dry g | |

Sample ID: 21764-R1

B13-8356

Method: EPA 8270C-NCI

Matrix: Sediment

Batch ID: O-6005

Sampled: 13-Jul-13

9:22

Prepared: 24-Aug-13

Received: 13-Jul-13

Analyzed: 06-Sep-13

| | | | | | | |
|------------|----|----|------|-----|----------|--|
| Allethrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Bifenthrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Cyfluthrin | NA | ND | 0.25 | 0.5 | ng/dry g | |



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CA ELAP #2769

Pyrethroids

ANALYTICAL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | QA CODE |
|--------------------|----------|--------|------|-----|----------|---------|
| Cypermethrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Esfenvalerate | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Fenvalerate | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Fluvalinate | NA | ND | 0.25 | 0.5 | ng/dry g | |
| L-Cyhalothrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Permethrin, cis- | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Permethrin, trans- | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Prallethrin | NA | ND | 0.25 | 0.5 | ng/dry g | |
| Resmethrin | NA | ND | 0.25 | 0.5 | ng/dry g | |

QUALITY CONTROL

REPORT

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ENVIRONMENTAL LABORATORIES, INC.

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CA ELAP #2769

Conventionals

QUALITY CONTROL REPORT

| SAMPLE ID | BATCH ID | RESULT | MDL | RL | UNITS | SPIKE LEVEL | SOURCE RESULT | ACCURACY % | PRECISION % | QA CODE |
|-----------|----------|--------|-----|----|-------|-------------|---------------|------------|-------------|---------|
|-----------|----------|--------|-----|----|-------|-------------|---------------|------------|-------------|---------|

| Ammonia as N | | Method: SM 4500-NH ₃ D | | Fraction: NA | | Prepared: 05-Sep-13 | | Analyzed: 05-Sep-13 | | |
|--------------|-----------------------|-----------------------------------|-------|--------------|------|---------------------|-------|---------------------|-----|----------------|
| 21731-B1 | QAQC Procedural Blank | C-13136 | ND | 0.02 | 0.03 | mg/dry kg | | | | |
| 21731-BS1 | QAQC Procedural Blank | C-13136 | 4.36 | 0.02 | 0.03 | mg/dry kg | 4.45 | 0 | 98 | 70 - 130% PASS |
| 21731-BS2 | QAQC Procedural Blank | C-13136 | 4.01 | 0.02 | 0.03 | mg/dry kg | 4.45 | 0 | 90 | 70 - 130% PASS |
| 21733-MS1 | B13-8382 | C-13136 | 52.75 | 0.02 | 0.03 | mg/dry kg | 41.73 | 13.72 | 94 | 70 - 130% PASS |
| 21733-MS2 | B13-8382 | C-13136 | 48.04 | 0.02 | 0.03 | mg/dry kg | 36.62 | 13.72 | 94 | 70 - 130% PASS |
| 21733-R2 | B13-8382 | C-13136 | 13.1 | 0.02 | 0.03 | mg/dry kg | | | | 9 25 PASS |
| 21732-B1 | QAQC Procedural Blank | C-13138 | ND | 0.02 | 0.03 | mg/dry kg | | | | |
| 21732-BS1 | QAQC Procedural Blank | C-13138 | 5.01 | 0.02 | 0.03 | mg/dry kg | 4.51 | 0 | 111 | 70 - 130% PASS |
| 21732-BS2 | QAQC Procedural Blank | C-13138 | 4.44 | 0.02 | 0.03 | mg/dry kg | 4.51 | 0 | 98 | 70 - 130% PASS |
| 21753-MS1 | B13-8397 | C-13138 | 66.89 | 0.02 | 0.03 | mg/dry kg | 32.41 | 34.81 | 99 | 70 - 130% PASS |
| 21753-MS2 | B13-8397 | C-13138 | 66.12 | 0.02 | 0.03 | mg/dry kg | 32.41 | 34.81 | 97 | 70 - 130% PASS |
| 21753-R2 | B13-8397 | C-13138 | 34.74 | 0.02 | 0.03 | mg/dry kg | | | | 0 25 PASS |

| Percent Solids | | Method: SM 2540B | | Fraction: NA | | Prepared: 02-Aug-13 | | Analyzed: 02-Aug-13 | | |
|----------------|-----------------------|------------------|------|--------------|-----|---------------------|--|---------------------|--|-----------|
| 21731-B1 | QAQC Procedural Blank | E-5121 | ND | 0.1 | 0.1 | % Dry Weight | | | | |
| 21732-B1 | QAQC Procedural Blank | E-5121 | ND | 0.1 | 0.1 | % Dry Weight | | | | |
| 21733-R2 | B13-8382 | E-5121 | 60.9 | 0.1 | 0.1 | % Dry Weight | | | | 0 25 PASS |
| 21748-R2 | TMDL1-CH | E-5121 | 36.6 | 0.1 | 0.1 | % Dry Weight | | | | 1 25 PASS |

| Total Sulfides | | Method: Plumb, 1981/TERL | | Fraction: NA | | Prepared: 09-Sep-13 | | Analyzed: 09-Sep-13 | | |
|----------------|-----------------------|--------------------------|-------|--------------|-----|---------------------|-------|---------------------|-----|----------------|
| 21731-B1 | QAQC Procedural Blank | C-13145 | ND | 0.2 | 0.4 | mg/dry kg | | | | |
| 21731-BS1 | QAQC Procedural Blank | C-13145 | 10.8 | 0.2 | 0.4 | mg/dry kg | 12.6 | 0 | 86 | 50 - 130% PASS |
| 21731-BS2 | QAQC Procedural Blank | C-13145 | 11.4 | 0.2 | 0.4 | mg/dry kg | 12.6 | 0 | 90 | 50 - 130% PASS |
| 21733-MS1 | B13-8382 | C-13145 | 122.1 | 0.2 | 0.4 | mg/dry kg | 120.9 | 5.9 | 96 | 50 - 130% PASS |
| 21733-MS2 | B13-8382 | C-13145 | 129.7 | 0.2 | 0.4 | mg/dry kg | 152.2 | 5.9 | 81 | 50 - 130% PASS |
| 21733-R2 | B13-8382 | C-13145 | 6.4 | 0.2 | 0.4 | mg/dry kg | | | | 17 25 PASS |
| 21732-B1 | QAQC Procedural Blank | C-13147 | ND | 0.2 | 0.4 | mg/dry kg | | | | |
| 21732-BS1 | QAQC Procedural Blank | C-13147 | 12.1 | 0.2 | 0.4 | mg/dry kg | 13.7 | 0 | 88 | 50 - 130% PASS |
| 21732-BS2 | QAQC Procedural Blank | C-13147 | 12.5 | 0.2 | 0.4 | mg/dry kg | 13.7 | 0 | 91 | 50 - 130% PASS |
| 21754-MS1 | B13-8396 | C-13147 | 92.9 | 0.2 | 0.4 | mg/dry kg | 72.8 | 9.4 | 115 | 50 - 130% PASS |



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CA ELAP #2769

Conventional

QUALITY CONTROL REPORT

| SAMPLE ID | BATCH ID | RESULT | MDL | RL | UNITS | SPIKE LEVEL | SOURCE RESULT | ACCURACY % | ACCURACY LIMITS | PRECISION % | PRECISION LIMITS | QA CODE |
|-----------|----------|---------|------|-----|-------|-------------|---------------|------------|-----------------|-------------|------------------|-----------|
| 21754-MS2 | B13-8396 | C-13147 | 90.7 | 0.2 | 0.4 | mg/dry kg | 72.8 | 9.4 | 112 | 50 - 130% | PASS | 3 25 PASS |
| 21754-R2 | B13-8396 | C-13147 | 9.5 | 0.2 | 0.4 | mg/dry kg | | | | | | 2 25 PASS |



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CA ELAP #2769

Aroclor PCBs

QUALITY CONTROL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | SPIKE LEVEL | SOURCE RESULT | ACCURACY % LIMITS | PRECISION % LIMITS | QA CODE |
|---------|----------|--------|-----|----|-------|-------------|---------------|-------------------|--------------------|---------|
|---------|----------|--------|-----|----|-------|-------------|---------------|-------------------|--------------------|---------|

Sample ID: 21731-B1

QAQC Procedural Blank

Method: EPA 8270C

Matrix: DI Water

Batch ID: O-6001

Sampled:

Prepared: 09-Aug-13

Received:

Analyzed: 30-Aug-13

| | | | | | | | | | | |
|--------------|----|----|----|----|----------|--|--|--|--|--|
| Aroclor 1016 | NA | ND | 10 | 20 | ng/dry g | | | | | |
| Aroclor 1221 | NA | ND | 10 | 20 | ng/dry g | | | | | |
| Aroclor 1232 | NA | ND | 10 | 20 | ng/dry g | | | | | |
| Aroclor 1242 | NA | ND | 10 | 20 | ng/dry g | | | | | |
| Aroclor 1248 | NA | ND | 10 | 20 | ng/dry g | | | | | |
| Aroclor 1254 | NA | ND | 10 | 20 | ng/dry g | | | | | |
| Aroclor 1260 | NA | ND | 10 | 20 | ng/dry g | | | | | |

Sample ID: 21732-B1

QAQC Procedural Blank

Method: EPA 8270C

Matrix: DI Water

Batch ID: O-6005

Sampled:

Prepared: 24-Aug-13

Received:

Analyzed: 06-Sep-13

| | | | | | | | | | | |
|--------------|----|----|----|----|----------|--|--|--|--|--|
| Aroclor 1016 | NA | ND | 10 | 20 | ng/dry g | | | | | |
| Aroclor 1221 | NA | ND | 10 | 20 | ng/dry g | | | | | |
| Aroclor 1232 | NA | ND | 10 | 20 | ng/dry g | | | | | |
| Aroclor 1242 | NA | ND | 10 | 20 | ng/dry g | | | | | |
| Aroclor 1248 | NA | ND | 10 | 20 | ng/dry g | | | | | |
| Aroclor 1254 | NA | ND | 10 | 20 | ng/dry g | | | | | |
| Aroclor 1260 | NA | ND | 10 | 20 | ng/dry g | | | | | |

Sample ID: 21733-B1

B13-8382

Method: EPA 8270C

Matrix: Sediment

Batch ID: O-6003

Sampled: 10-Jul-13

11:04

Prepared: 15-Aug-13

Received: 13-Jul-13

Analyzed: 30-Aug-13

| | | | | | | | | | | |
|--------------|----|----|----|----|----------|--|--|--|--|--|
| Aroclor 1016 | NA | ND | 10 | 20 | ng/dry g | | | | | |
| Aroclor 1221 | NA | ND | 10 | 20 | ng/dry g | | | | | |
| Aroclor 1232 | NA | ND | 10 | 20 | ng/dry g | | | | | |
| Aroclor 1242 | NA | ND | 10 | 20 | ng/dry g | | | | | |
| Aroclor 1248 | NA | ND | 10 | 20 | ng/dry g | | | | | |
| Aroclor 1254 | NA | ND | 10 | 20 | ng/dry g | | | | | |
| Aroclor 1260 | NA | ND | 10 | 20 | ng/dry g | | | | | |

Sample ID: 21744-R2

B13-8308

Method: EPA 8270C

Matrix: Sediment

Batch ID: O-6003

Sampled: 11-Jul-13

17:06

Prepared: 15-Aug-13

Received: 13-Jul-13

Analyzed: 30-Aug-13

| | | |
|--------------------------------|--------------|---|
| PHYSIS Project ID: 1307001-001 | Client: AMEC | Project: POLA/POLB Harbor Toxics TMDL and Bight '13 |
|--------------------------------|--------------|---|



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CA ELAP #2769

Aroclor PCBs

QUALITY CONTROL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | SPIKE LEVEL | SOURCE RESULT | ACCURACY % | PRECISION % | QA CODE |
|--------------|----------|--------|-----|----|----------|-------------|---------------|------------|-------------|---------|
| | | | | | | | | LIMITS | LIMITS | |
| Aroclor 1016 | NA | ND | 10 | 20 | ng/dry g | | | | 0 25 | PASS |
| Aroclor 1221 | NA | ND | 10 | 20 | ng/dry g | | | | 0 25 | PASS |
| Aroclor 1232 | NA | ND | 10 | 20 | ng/dry g | | | | 0 25 | PASS |
| Aroclor 1242 | NA | ND | 10 | 20 | ng/dry g | | | | 0 25 | PASS |
| Aroclor 1248 | NA | ND | 10 | 20 | ng/dry g | | | | 0 25 | PASS |
| Aroclor 1254 | NA | ND | 10 | 20 | ng/dry g | | | | 0 25 | PASS |
| Aroclor 1260 | NA | ND | 10 | 20 | ng/dry g | | | | 0 25 | PASS |

Sample ID: 21753-R2

B13-8397

Method: EPA 8270C

Matrix: Sediment

Batch ID: O-6001

Sampled: 12-Jul-13

11:20

Prepared: 09-Aug-13

Received: 13-Jul-13

Analyzed: 30-Aug-13

| | | | | | | | | | | |
|--------------|----|----|----|----|----------|--|--|--|------|------|
| Aroclor 1016 | NA | ND | 10 | 20 | ng/dry g | | | | 0 25 | PASS |
| Aroclor 1221 | NA | ND | 10 | 20 | ng/dry g | | | | 0 25 | PASS |
| Aroclor 1232 | NA | ND | 10 | 20 | ng/dry g | | | | 0 25 | PASS |
| Aroclor 1242 | NA | ND | 10 | 20 | ng/dry g | | | | 0 25 | PASS |
| Aroclor 1248 | NA | ND | 10 | 20 | ng/dry g | | | | 0 25 | PASS |
| Aroclor 1254 | NA | ND | 10 | 20 | ng/dry g | | | | 0 25 | PASS |
| Aroclor 1260 | NA | ND | 10 | 20 | ng/dry g | | | | 0 25 | PASS |

Sample ID: 21764-R2

B13-8356

Method: EPA 8270C

Matrix: Sediment

Batch ID: O-6005

Sampled: 13-Jul-13

9:22

Prepared: 24-Aug-13

Received: 13-Jul-13

Analyzed: 06-Sep-13

| | | | | | | | | | | | |
|--------------|----|----|----|----|----------|--|--|--|------|------|----|
| Aroclor 1016 | NA | ND | 10 | 20 | ng/dry g | | | | 0 25 | PASS | SL |
| Aroclor 1221 | NA | ND | 10 | 20 | ng/dry g | | | | 0 25 | PASS | |
| Aroclor 1232 | NA | ND | 10 | 20 | ng/dry g | | | | 0 25 | PASS | |
| Aroclor 1242 | NA | ND | 10 | 20 | ng/dry g | | | | 0 25 | PASS | |
| Aroclor 1248 | NA | ND | 10 | 20 | ng/dry g | | | | 0 25 | PASS | |
| Aroclor 1254 | NA | ND | 10 | 20 | ng/dry g | | | | 0 25 | PASS | SL |
| Aroclor 1260 | NA | ND | 10 | 20 | ng/dry g | | | | 0 25 | PASS | |



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CA ELAP #2769

Chlorinated Pesticides

QUALITY CONTROL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | SPIKE LEVEL | SOURCE RESULT | ACCURACY % LIMITS | PRECISION % LIMITS | QA CODE |
|---------|----------|--------|-----|----|-------|-------------|---------------|-------------------|--------------------|---------|
|---------|----------|--------|-----|----|-------|-------------|---------------|-------------------|--------------------|---------|

Sample ID: 19187-CRM1

QAQC CRM - SRM 1944

Matrix: Sediment

Sampled:

Received:

Method: EPA 8270C

Batch ID: O-6005

Prepared: 24-Aug-13

Analyzed: 06-Sep-13

| | | | | | | | | | | |
|-------------------|----|-------|------|-----|------------|------|--|---------------|------|--|
| (PCB030) | NA | 106 | | | % Recovery | 100 | | 106 50 - 150% | PASS | |
| (PCB112) | NA | 93 | | | % Recovery | 100 | | 93 50 - 150% | PASS | |
| (PCB198) | NA | 110 | | | % Recovery | 100 | | 110 50 - 150% | PASS | |
| (TCMX) | NA | 107 | | | % Recovery | 100 | | 107 50 - 150% | PASS | |
| 2,4'-DDD | NA | 47.2 | 0.05 | 0.1 | µg/dry g | 38 | | 124 70 - 130% | PASS | |
| 2,4'-DDE | NA | 23.2 | 0.05 | 0.1 | µg/dry g | 19 | | 122 70 - 130% | PASS | |
| 4,4'-DDD | NA | 129.5 | 0.05 | 0.1 | µg/dry g | 108 | | 120 70 - 130% | PASS | |
| 4,4'-DDE | NA | 104.9 | 0.05 | 0.1 | µg/dry g | 86 | | 122 70 - 130% | PASS | |
| 4,4'-DDT | NA | 134.8 | 0.05 | 0.1 | µg/dry g | 119 | | 113 70 - 130% | PASS | |
| Chlordane-alpha | NA | 20.4 | 0.05 | 0.1 | µg/dry g | 16.5 | | 124 70 - 130% | PASS | |
| Chlordane-gamma | NA | 6.6 | 0.05 | 0.1 | µg/dry g | 8 | | 82 70 - 130% | PASS | |
| cis-Nonachlor | NA | 4.5 | 0.05 | 0.1 | µg/dry g | 3.7 | | 122 70 - 130% | PASS | |
| Hexachlorobenzene | NA | 6.9 | 0.05 | 0.1 | µg/dry g | 6 | | 115 70 - 130% | PASS | |
| trans-Nonachlor | NA | 9.7 | 0.05 | 0.1 | µg/dry g | 8.2 | | 118 70 - 130% | PASS | |

Sample ID: 21731-B1

QAQC Procedural Blank

Matrix: DI Water

Sampled:

Received:

Method: EPA 8270C

Batch ID: O-6001

Prepared: 09-Aug-13

Analyzed: 30-Aug-13

| | | | | | | | | | | |
|-----------|----|----|------|-----|------------|-----|--|--------------|------|--|
| (PCB030) | NA | 97 | | | % Recovery | 100 | | 97 50 - 150% | PASS | |
| (PCB112) | NA | 92 | | | % Recovery | 100 | | 92 50 - 150% | PASS | |
| (PCB198) | NA | 83 | | | % Recovery | 100 | | 83 50 - 150% | PASS | |
| (TCMX) | NA | 97 | | | % Recovery | 100 | | 97 50 - 150% | PASS | |
| 2,4'-DDD | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |
| 2,4'-DDE | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |
| 2,4'-DDT | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |
| 4,4'-DDD | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |
| 4,4'-DDE | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |
| 4,4'-DDMU | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |
| 4,4'-DDT | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |
| Aldrin | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |



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CA ELAP #2769

Chlorinated Pesticides

QUALITY CONTROL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | SPIKE LEVEL | SOURCE RESULT | ACCURACY % LIMITS | PRECISION % LIMITS | QA CODE |
|--------------------|----------|--------|------|-----|----------|-------------|---------------|-------------------|--------------------|---------|
| BHC-alpha | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |
| BHC-beta | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |
| BHC-delta | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |
| BHC-gamma | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |
| Chlordane-alpha | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |
| Chlordane-gamma | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |
| cis-Nonachlor | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |
| DCPA (Dacthal) | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |
| Dicofol | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |
| Dieldrin | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |
| Endosulfan Sulfate | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |
| Endosulfan-I | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |
| Endosulfan-II | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |
| Endrin | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |
| Endrin Aldehyde | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |
| Endrin Ketone | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |
| Heptachlor | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |
| Heptachlor Epoxide | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |
| Hexachlorobenzene | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |
| Methoxychlor | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |
| Mirex | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |
| Oxychlordane | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |
| Perthane | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |
| trans-Nonachlor | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |

Method: EPA 8270C-NCI

Batch ID: O-6001

Prepared: 09-Aug-13

Analyzed: 24-Aug-13

| | | | | | | | | | | |
|-----------|----|----|-----|-----|----------|--|--|--|--|--|
| Toxaphene | NA | ND | 0.1 | 0.2 | ng/dry g | | | | | |
|-----------|----|----|-----|-----|----------|--|--|--|--|--|

Sample ID: 21731-BS1

QAQC Procedural Blank

Matrix: DI Water

Sampled:

Received:

Method: EPA 8270C

Batch ID: O-6001

Prepared: 09-Aug-13

Analyzed: 30-Aug-13

| | | | | | | | | | | |
|----------|----|-----|--|------------|-----|---|-----|-----------|------|--|
| (PCB030) | NA | 106 | | % Recovery | 100 | 0 | 106 | 50 - 150% | PASS | |
| (PCB112) | NA | 110 | | % Recovery | 100 | 0 | 110 | 50 - 150% | PASS | |
| (PCB198) | NA | 106 | | % Recovery | 100 | 0 | 106 | 50 - 150% | PASS | |

PHYSIS Project ID: 1307001-001

Client: AMEC

Project: POLA/POLB Harbor Toxics TMDL and Bight '13



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CA ELAP #2769

Chlorinated Pesticides

QUALITY CONTROL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | SPIKE LEVEL | SOURCE RESULT | ACCURACY | | PRECISION | | QA CODE |
|--------------------|----------|--------|------|-----|------------|-------------|---------------|----------|-----------|-----------|--------|---------|
| | | | | | | | | % | LIMITS | % | LIMITS | |
| (TCMX) | NA | 108 | | | % Recovery | 100 | 0 | 108 | 50 - 150% | PASS | | |
| 2,4'-DDD | NA | 466.23 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 117 | 50 - 150% | PASS | | |
| 2,4'-DDE | NA | 496.94 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 124 | 50 - 150% | PASS | | |
| 2,4'-DDT | NA | 569.33 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 142 | 25 - 125% | PASS | | |
| 4,4'-DDD | NA | 436.24 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 109 | 50 - 150% | PASS | | |
| 4,4'-DDE | NA | 480.94 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 120 | 50 - 150% | PASS | | |
| 4,4'-DDMU | NA | 519.37 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 130 | 50 - 150% | PASS | | |
| 4,4'-DDT | NA | 488.93 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 122 | 25 - 125% | PASS | | |
| Aldrin | NA | 383.24 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 96 | 50 - 150% | PASS | | |
| BHC-alpha | NA | 470.59 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 118 | 50 - 150% | PASS | | |
| BHC-beta | NA | 438.28 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 110 | 50 - 150% | PASS | | |
| BHC-delta | NA | 500.52 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 125 | 50 - 150% | PASS | | |
| BHC-gamma | NA | 521.64 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 130 | 50 - 150% | PASS | | |
| Chlordane-alpha | NA | 389.19 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 97 | 50 - 150% | PASS | | |
| Chlordane-gamma | NA | 448.35 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 112 | 50 - 150% | PASS | | |
| cis-Nonachlor | NA | 365.6 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 91 | 50 - 150% | PASS | | |
| DCPA (Dacthal) | NA | 390.47 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 98 | 50 - 150% | PASS | | |
| Dicofol | NA | 294.84 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 74 | 50 - 150% | PASS | | |
| Dieldrin | NA | 502.6 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 126 | 50 - 150% | PASS | | |
| Endosulfan Sulfate | NA | 443.04 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 111 | 50 - 150% | PASS | | |
| Endosulfan-I | NA | 421.71 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 105 | 50 - 150% | PASS | | |
| Endosulfan-II | NA | 520.76 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 130 | 50 - 150% | PASS | | |
| Endrin | NA | 496.66 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 124 | 25 - 125% | PASS | | |
| Endrin Aldehyde | NA | 260.92 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 65 | 0 - 125% | PASS | | |
| Endrin Ketone | NA | 361.03 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 90 | 25 - 125% | PASS | | |
| Heptachlor | NA | 403.83 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 101 | 50 - 150% | PASS | | |
| Heptachlor Epoxide | NA | 548.73 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 137 | 50 - 150% | PASS | | |
| Hexachlorobenzene | NA | 415.51 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 104 | 50 - 150% | PASS | | |
| Methoxychlor | NA | 528.08 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 132 | 50 - 150% | PASS | | |
| Mirex | NA | 500.16 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 125 | 50 - 150% | PASS | | |
| Oxychlordane | NA | 304.84 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 76 | 50 - 150% | PASS | | |



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CA ELAP #2769

Chlorinated Pesticides

QUALITY CONTROL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | SPIKE LEVEL | SOURCE RESULT | ACCURACY % | PRECISION % | QA CODE | |
|-----------------|----------|-----------------------|------|-----|------------------|-------------|---------------|---------------------|-------------|---------------------|--|
| | | | | | | | | LIMITS | LIMITS | | |
| Perthane | NA | 400.47 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 100 50 - 150% | PASS | | |
| trans-Nonachlor | NA | 370.89 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 93 50 - 150% | PASS | | |
| | | Method: EPA 8270C-NCI | | | Batch ID: O-6001 | | | Prepared: 09-Aug-13 | | Analyzed: 24-Aug-13 | |
| Toxaphene | NA | 2989.2 | 0.1 | 0.2 | ng/dry g | 3000 | 0 | 100 50 - 150% | PASS | | |

Sample ID: 21731-BS2

QAQC Procedural Blank

Matrix: DI Water

Sampled:

Received:

Method: EPA 8270C

Batch ID: O-6001

Prepared: 09-Aug-13

Analyzed: 30-Aug-13

| | | | | | | | | | | | | |
|--------------------|----|--------|------|-----|------------|-----|---|---------------|------|---|----|------|
| (PCB030) | NA | 106 | | | % Recovery | 100 | 0 | 106 50 - 150% | PASS | 0 | 25 | PASS |
| (PCB112) | NA | 109 | | | % Recovery | 100 | 0 | 109 50 - 150% | PASS | 1 | 25 | PASS |
| (PCB198) | NA | 108 | | | % Recovery | 100 | 0 | 108 50 - 150% | PASS | 2 | 25 | PASS |
| (TCMX) | NA | 110 | | | % Recovery | 100 | 0 | 110 50 - 150% | PASS | 2 | 25 | PASS |
| 2,4'-DDD | NA | 455.65 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 114 50 - 150% | PASS | 3 | 25 | PASS |
| 2,4'-DDE | NA | 493.42 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 123 50 - 150% | PASS | 1 | 25 | PASS |
| 2,4'-DDT | NA | 557.08 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 139 25 - 125% | PASS | 2 | 25 | PASS |
| 4,4'-DDD | NA | 419.25 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 105 50 - 150% | PASS | 4 | 25 | PASS |
| 4,4'-DDE | NA | 473.16 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 118 50 - 150% | PASS | 2 | 25 | PASS |
| 4,4'-DDMU | NA | 514.86 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 129 50 - 150% | PASS | 1 | 25 | PASS |
| 4,4'-DDT | NA | 466.62 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 117 25 - 125% | PASS | 4 | 25 | PASS |
| Aldrin | NA | 387.37 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 97 50 - 150% | PASS | 1 | 25 | PASS |
| BHC-alpha | NA | 492.22 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 123 50 - 150% | PASS | 4 | 25 | PASS |
| BHC-beta | NA | 429.2 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 107 50 - 150% | PASS | 3 | 25 | PASS |
| BHC-delta | NA | 494.97 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 124 50 - 150% | PASS | 1 | 25 | PASS |
| BHC-gamma | NA | 530.82 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 133 50 - 150% | PASS | 2 | 25 | PASS |
| Chlordane-alpha | NA | 377.73 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 94 50 - 150% | PASS | 3 | 25 | PASS |
| Chlordane-gamma | NA | 454.45 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 114 50 - 150% | PASS | 2 | 25 | PASS |
| cis-Nonachlor | NA | 370.33 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 93 50 - 150% | PASS | 2 | 25 | PASS |
| DCPA (Dacthal) | NA | 359.74 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 90 50 - 150% | PASS | 9 | 25 | PASS |
| Dicofol | NA | 295.02 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 74 50 - 150% | PASS | 0 | 25 | PASS |
| Dieldrin | NA | 476.62 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 119 50 - 150% | PASS | 6 | 25 | PASS |
| Endosulfan Sulfate | NA | 436.86 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 109 50 - 150% | PASS | 2 | 25 | PASS |
| Endosulfan-I | NA | 429.1 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 107 50 - 150% | PASS | 2 | 25 | PASS |
| Endosulfan-II | NA | 502.48 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 126 50 - 150% | PASS | 3 | 25 | PASS |



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CA ELAP #2769

Chlorinated Pesticides

QUALITY CONTROL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | SPIKE LEVEL | SOURCE RESULT | ACCURACY | | PRECISION | | QA CODE | |
|--------------------|----------|--------|------|-----|----------|-------------|---------------|----------|-----------|-----------|--------|---------|------|
| | | | | | | | | % | LIMITS | % | LIMITS | | |
| Endrin | NA | 470.2 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 118 | 25 - 125% | PASS | 5 | 25 | PASS |
| Endrin Aldehyde | NA | 238.5 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 60 | 0 - 125% | PASS | 8 | 25 | PASS |
| Endrin Ketone | NA | 340.44 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 85 | 25 - 125% | PASS | 6 | 25 | PASS |
| Heptachlor | NA | 401.2 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 100 | 50 - 150% | PASS | 1 | 25 | PASS |
| Heptachlor Epoxide | NA | 518.51 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 130 | 50 - 150% | PASS | 5 | 25 | PASS |
| Hexachlorobenzene | NA | 432.52 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 108 | 50 - 150% | PASS | 4 | 25 | PASS |
| Methoxychlor | NA | 478.83 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 120 | 50 - 150% | PASS | 10 | 25 | PASS |
| Mirex | NA | 504.46 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 126 | 50 - 150% | PASS | 1 | 25 | PASS |
| Oxychlorodane | NA | 305.02 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 76 | 50 - 150% | PASS | 0 | 25 | PASS |
| Perthane | NA | 369.74 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 92 | 50 - 150% | PASS | 8 | 25 | PASS |
| trans-Nonachlor | NA | 367.23 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 92 | 50 - 150% | PASS | 1 | 25 | PASS |

Method: EPA 8270C-NCI

Batch ID: O-6001

Prepared: 09-Aug-13

Analyzed: 24-Aug-13

| | | | | | | | | | | | | | |
|-----------|----|--------|-----|-----|----------|------|---|-----|-----------|------|---|----|------|
| Toxaphene | NA | 3052.5 | 0.1 | 0.2 | ng/dry g | 3000 | 0 | 102 | 50 - 150% | PASS | 2 | 25 | PASS |
|-----------|----|--------|-----|-----|----------|------|---|-----|-----------|------|---|----|------|

Sample ID: 21732-B1

QAQC Procedural Blank

Matrix: DI Water

Sampled:

Received:

Method: EPA 8270C

Batch ID: O-6005

Prepared: 24-Aug-13

Analyzed: 06-Sep-13

| | | | | | | | | | | | | | |
|-----------|----|-----|------|-----|------------|-----|--|-----|-----------|------|--|--|--|
| (PCB030) | NA | 97 | | | % Recovery | 100 | | 97 | 50 - 150% | PASS | | | |
| (PCB112) | NA | 104 | | | % Recovery | 100 | | 104 | 50 - 150% | PASS | | | |
| (PCB198) | NA | 104 | | | % Recovery | 100 | | 104 | 50 - 150% | PASS | | | |
| (TCMX) | NA | 96 | | | % Recovery | 100 | | 96 | 50 - 150% | PASS | | | |
| 2,4'-DDD | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | | | |
| 2,4'-DDE | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | | | |
| 2,4'-DDT | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | | | |
| 4,4'-DDD | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | | | |
| 4,4'-DDE | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | | | |
| 4,4'-DDMU | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | | | |
| 4,4'-DDT | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | | | |
| Aldrin | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | | | |
| BHC-alpha | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | | | |
| BHC-beta | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | | | |
| BHC-delta | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | | | |
| BHC-gamma | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | | | |



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CA ELAP #2769

Chlorinated Pesticides

QUALITY CONTROL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | SPIKE LEVEL | SOURCE RESULT | ACCURACY % | PRECISION % | QA CODE |
|--------------------|----------|--------|------|-----|----------|-------------|---------------|------------|-------------|---------|
| | | | | | | | | LIMITS | LIMITS | |
| Chlordane-alpha | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |
| Chlordane-gamma | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |
| cis-Nonachlor | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |
| DCPA (Dacthal) | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |
| Dicofol | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |
| Dieldrin | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |
| Endosulfan Sulfate | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |
| Endosulfan-I | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |
| Endosulfan-II | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |
| Endrin | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |
| Endrin Aldehyde | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |
| Endrin Ketone | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |
| Heptachlor | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |
| Heptachlor Epoxide | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |
| Hexachlorobenzene | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |
| Methoxychlor | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |
| Mirex | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |
| Oxychlordane | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |
| Perthane | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |
| trans-Nonachlor | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |

Method: EPA 8270C-NCI

Batch ID: O-6005

Prepared: 24-Aug-13

Analyzed: 06-Sep-13

| | | | | | | | | | | |
|-----------|----|----|-----|-----|----------|--|--|--|--|--|
| Toxaphene | NA | ND | 0.1 | 0.2 | ng/dry g | | | | | |
|-----------|----|----|-----|-----|----------|--|--|--|--|--|

Sample ID: 21732-BS1

QAQC Procedural Blank

Matrix: DI Water

Sampled:

Received:

Method: EPA 8270C

Batch ID: O-6005

Prepared: 24-Aug-13

Analyzed: 06-Sep-13

| | | | | | | | | | | |
|----------|----|--------|------|-----|------------|-----|---|-----|-----------|------|
| (PCB030) | NA | 93 | | | % Recovery | 100 | 0 | 93 | 50 - 150% | PASS |
| (PCB112) | NA | 97 | | | % Recovery | 100 | 0 | 97 | 50 - 150% | PASS |
| (PCB198) | NA | 90 | | | % Recovery | 100 | 0 | 90 | 50 - 150% | PASS |
| (TCMX) | NA | 92 | | | % Recovery | 100 | 0 | 92 | 50 - 150% | PASS |
| 2,4'-DDD | NA | 377.6 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 94 | 50 - 150% | PASS |
| 2,4'-DDE | NA | 400.48 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 100 | 50 - 150% | PASS |
| 2,4'-DDT | NA | 386.6 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 97 | 25 - 125% | PASS |



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CA ELAP #2769

Chlorinated Pesticides

QUALITY CONTROL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | SPIKE LEVEL | SOURCE RESULT | ACCURACY | | PRECISION | | QA CODE |
|--------------------|----------|--------|------|-----|----------|-------------|---------------|----------|-----------|-----------|--------|---------|
| | | | | | | | | % | LIMITS | % | LIMITS | |
| 4,4'-DDD | NA | 391 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 98 | 50 - 150% | PASS | | |
| 4,4'-DDE | NA | 421.94 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 105 | 50 - 150% | PASS | | |
| 4,4'-DDMU | NA | 401.9 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 100 | 50 - 150% | PASS | | |
| 4,4'-DDT | NA | 425.6 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 106 | 25 - 125% | PASS | | |
| Aldrin | NA | 431.48 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 108 | 50 - 150% | PASS | | |
| BHC-alpha | NA | 432.46 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 108 | 50 - 150% | PASS | | |
| BHC-beta | NA | 433.5 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 108 | 50 - 150% | PASS | | |
| BHC-delta | NA | 465.09 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 116 | 50 - 150% | PASS | | |
| BHC-gamma | NA | 419.39 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 105 | 50 - 150% | PASS | | |
| Chlordane-alpha | NA | 403.31 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 101 | 50 - 150% | PASS | | |
| Chlordane-gamma | NA | 354.5 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 89 | 50 - 150% | PASS | | |
| cis-Nonachlor | NA | 395.56 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 99 | 50 - 150% | PASS | | |
| DCPA (Dacthal) | NA | 389.4 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 97 | 50 - 150% | PASS | | |
| Dicofol | NA | 243.3 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 61 | 50 - 150% | PASS | | |
| Dieldrin | NA | 404.93 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 101 | 50 - 150% | PASS | | |
| Endosulfan Sulfate | NA | 388.1 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 97 | 50 - 150% | PASS | | |
| Endosulfan-I | NA | 361.9 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 90 | 50 - 150% | PASS | | |
| Endosulfan-II | NA | 363.6 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 91 | 50 - 150% | PASS | | |
| Endrin | NA | 404.93 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 101 | 25 - 125% | PASS | | |
| Endrin Aldehyde | NA | 405.97 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 101 | 0 - 125% | PASS | | |
| Endrin Ketone | NA | 375.2 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 94 | 25 - 125% | PASS | | |
| Heptachlor | NA | 429.8 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 107 | 50 - 150% | PASS | | |
| Heptachlor Epoxide | NA | 411.93 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 103 | 50 - 150% | PASS | | |
| Hexachlorobenzene | NA | 359.17 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 90 | 50 - 150% | PASS | | |
| Methoxychlor | NA | 406.3 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 102 | 50 - 150% | PASS | | |
| Mirex | NA | 412.38 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 103 | 50 - 150% | PASS | | |
| Oxychlordane | NA | 353.3 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 88 | 50 - 150% | PASS | | |
| Perthane | NA | 399.4 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 100 | 50 - 150% | PASS | | |
| trans-Nonachlor | NA | 407.09 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 102 | 50 - 150% | PASS | | |

Method: EPA 8270C-NCI

Batch ID: O-6005

Prepared: 24-Aug-13

Analyzed: 06-Sep-13

| | | | | | | | | | | | |
|-----------|----|--------|-----|-----|----------|------|---|----|-----------|------|--|
| Toxaphene | NA | 2929.4 | 0.1 | 0.2 | ng/dry g | 3000 | 0 | 98 | 50 - 150% | PASS | |
|-----------|----|--------|-----|-----|----------|------|---|----|-----------|------|--|



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CA ELAP #2769

Chlorinated Pesticides

QUALITY CONTROL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | SPIKE LEVEL | SOURCE RESULT | ACCURACY % | PRECISION % | QA CODE | |
|-----------------------------|----------|------------------------------|------|-----|-------------------------|-------------|---------------|---------------------|-------------|---------------------|--|
| | | | | | | | | LIMITS | LIMITS | | |
| Sample ID: 21732-BS2 | | QAQC Procedural Blank | | | Matrix: DI Water | | | Sampled: | | Received: | |
| | | Method: EPA 8270C | | | Batch ID: O-6005 | | | Prepared: 24-Aug-13 | | Analyzed: 06-Sep-13 | |
| (PCB030) | NA | 97 | | | % Recovery | 100 | 0 | 97 50 - 150% | PASS 4 25 | PASS | |
| (PCB112) | NA | 97 | | | % Recovery | 100 | 0 | 97 50 - 150% | PASS 0 25 | PASS | |
| (PCB198) | NA | 110 | | | % Recovery | 100 | 0 | 110 50 - 150% | PASS 20 25 | PASS | |
| (TCMX) | NA | 95 | | | % Recovery | 100 | 0 | 95 50 - 150% | PASS 3 25 | PASS | |
| 2,4'-DDD | NA | 371.4 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 93 50 - 150% | PASS 1 25 | PASS | |
| 2,4'-DDE | NA | 400.05 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 100 50 - 150% | PASS 0 25 | PASS | |
| 2,4'-DDT | NA | 373.3 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 93 25 - 125% | PASS 4 25 | PASS | |
| 4,4'-DDD | NA | 372 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 93 50 - 150% | PASS 5 25 | PASS | |
| 4,4'-DDE | NA | 420.8 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 105 50 - 150% | PASS 0 25 | PASS | |
| 4,4'-DDMU | NA | 402.45 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 101 50 - 150% | PASS 1 25 | PASS | |
| 4,4'-DDT | NA | 440.3 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 110 25 - 125% | PASS 4 25 | PASS | |
| Aldrin | NA | 435.63 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 109 50 - 150% | PASS 1 25 | PASS | |
| BHC-alpha | NA | 443.52 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 111 50 - 150% | PASS 3 25 | PASS | |
| BHC-beta | NA | 452.17 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 113 50 - 150% | PASS 5 25 | PASS | |
| BHC-delta | NA | 472.63 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 118 50 - 150% | PASS 2 25 | PASS | |
| BHC-gamma | NA | 422.57 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 106 50 - 150% | PASS 1 25 | PASS | |
| Chlordane-alpha | NA | 405.08 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 101 50 - 150% | PASS 0 25 | PASS | |
| Chlordane-gamma | NA | 358.5 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 90 50 - 150% | PASS 1 25 | PASS | |
| cis-Nonachlor | NA | 397.17 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 99 50 - 150% | PASS 0 25 | PASS | |
| DCPA (Dacthal) | NA | 307.8 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 77 50 - 150% | PASS 23 25 | PASS | |
| Dicofol | NA | 241.4 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 60 50 - 150% | PASS 2 25 | PASS | |
| Dieldrin | NA | 403 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 101 50 - 150% | PASS 0 25 | PASS | |
| Endosulfan Sulfate | NA | 373.5 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 93 50 - 150% | PASS 4 25 | PASS | |
| Endosulfan-I | NA | 355.9 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 89 50 - 150% | PASS 1 25 | PASS | |
| Endosulfan-II | NA | 356.8 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 89 50 - 150% | PASS 2 25 | PASS | |
| Endrin | NA | 403 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 101 25 - 125% | PASS 0 25 | PASS | |
| Endrin Aldehyde | NA | 357.01 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 89 0 - 125% | PASS 13 25 | PASS | |
| Endrin Ketone | NA | 378.3 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 95 25 - 125% | PASS 1 25 | PASS | |
| Heptachlor | NA | 388.8 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 97 50 - 150% | PASS 10 25 | PASS | |



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CA ELAP #2769

Chlorinated Pesticides

QUALITY CONTROL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | SPIKE LEVEL | SOURCE RESULT | ACCURACY | | PRECISION | | QA CODE | |
|--------------------|----------|-----------------------|------|-----|------------------|-------------|---------------|---------------------|-----------|-----------|---------------------|---------|------|
| | | | | | | | | % | LIMITS | % | LIMITS | | |
| Heptachlor Epoxide | NA | 393.2 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 98 | 50 - 150% | PASS | 5 | 25 | PASS |
| Hexachlorobenzene | NA | 376.1 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 94 | 50 - 150% | PASS | 4 | 25 | PASS |
| Methoxychlor | NA | 336.9 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 84 | 50 - 150% | PASS | 19 | 25 | PASS |
| Mirex | NA | 425.59 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 106 | 50 - 150% | PASS | 3 | 25 | PASS |
| Oxychlorthane | NA | 351.4 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 88 | 50 - 150% | PASS | 0 | 25 | PASS |
| Perthane | NA | 417.8 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 104 | 50 - 150% | PASS | 4 | 25 | PASS |
| trans-Nonachlor | NA | 415.96 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 104 | 50 - 150% | PASS | 2 | 25 | PASS |
| | | Method: EPA 8270C-NCI | | | Batch ID: O-6005 | | | Prepared: 24-Aug-13 | | | Analyzed: 06-Sep-13 | | |
| Toxaphene | NA | 3077.8 | 0.1 | 0.2 | ng/dry g | 3000 | 0 | 103 | 50 - 150% | PASS | 5 | 25 | PASS |

Sample ID: 21733-B1

B13-8382

Matrix: Sediment

Sampled: 10-Jul-13

11:04

Received: 13-Jul-13

Method: EPA 8270C

Batch ID: O-6003

Prepared: 15-Aug-13

Analyzed: 30-Aug-13

| | | | | | | | | | | | | | |
|-----------------|----|----|------|-----|------------|-----|--|----|-----------|------|--|--|--|
| (PCB030) | NA | 99 | | | % Recovery | 100 | | 99 | 50 - 150% | PASS | | | |
| (PCB112) | NA | 95 | | | % Recovery | 100 | | 95 | 50 - 150% | PASS | | | |
| (PCB198) | NA | 91 | | | % Recovery | 100 | | 91 | 50 - 150% | PASS | | | |
| (TCMX) | NA | 96 | | | % Recovery | 100 | | 96 | 50 - 150% | PASS | | | |
| 2,4'-DDD | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | | | |
| 2,4'-DDE | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | | | |
| 2,4'-DDT | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | | | |
| 4,4'-DDD | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | | | |
| 4,4'-DDE | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | | | |
| 4,4'-DDMU | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | | | |
| 4,4'-DDT | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | | | |
| Aldrin | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | | | |
| BHC-alpha | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | | | |
| BHC-beta | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | | | |
| BHC-delta | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | | | |
| BHC-gamma | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | | | |
| Chlordane-alpha | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | | | |
| Chlordane-gamma | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | | | |
| cis-Nonachlor | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | | | |
| DCPA (Dacthal) | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | | | |



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Chlorinated Pesticides

QUALITY CONTROL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | SPIKE LEVEL | SOURCE RESULT | ACCURACY % | PRECISION % | QA CODE |
|--------------------|----------|--------|------|-----|----------|-------------|---------------|------------|-------------|---------|
| | | | | | | | | LIMITS | LIMITS | |
| Dicofol | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |
| Dieldrin | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |
| Endosulfan Sulfate | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |
| Endosulfan-I | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |
| Endosulfan-II | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |
| Endrin | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |
| Endrin Aldehyde | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |
| Endrin Ketone | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |
| Heptachlor | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |
| Heptachlor Epoxide | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |
| Hexachlorobenzene | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |
| Methoxychlor | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |
| Mirex | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |
| Oxychlorane | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |
| Perthane | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |
| trans-Nonachlor | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |

Method: EPA 8270C-NCI

Batch ID: O-6003

Prepared: 15-Aug-13

Analyzed: 26-Aug-13

| | | | | | | | | | | |
|-----------|----|----|-----|-----|----------|--|--|--|--|--|
| Toxaphene | NA | ND | 0.1 | 0.2 | ng/dry g | | | | | |
|-----------|----|----|-----|-----|----------|--|--|--|--|--|

Sample ID: 21733-BS1

B13-8382

Matrix: Sediment

Sampled: 10-Jul-13

11:04

Received: 13-Jul-13

Method: EPA 8270C

Batch ID: O-6003

Prepared: 15-Aug-13

Analyzed: 30-Aug-13

| | | | | | | | | | | |
|-----------|----|--------|------|-----|------------|-----|---|-----|-----------|------|
| (PCB030) | NA | 92 | | | % Recovery | 100 | 0 | 92 | 50 - 150% | PASS |
| (PCB112) | NA | 107 | | | % Recovery | 100 | 0 | 107 | 50 - 150% | PASS |
| (PCB198) | NA | 95 | | | % Recovery | 100 | 0 | 95 | 50 - 150% | PASS |
| (TCMX) | NA | 89 | | | % Recovery | 100 | 0 | 89 | 50 - 150% | PASS |
| 2,4'-DDD | NA | 371.59 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 93 | 50 - 150% | PASS |
| 2,4'-DDE | NA | 398.96 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 100 | 50 - 150% | PASS |
| 2,4'-DDT | NA | 390.49 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 98 | 25 - 125% | PASS |
| 4,4'-DDD | NA | 448.42 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 112 | 50 - 150% | PASS |
| 4,4'-DDE | NA | 475.95 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 119 | 50 - 150% | PASS |
| 4,4'-DDMU | NA | 322.47 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 81 | 50 - 150% | PASS |
| 4,4'-DDT | NA | 320.85 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 80 | 25 - 125% | PASS |



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CA ELAP #2769

Chlorinated Pesticides

QUALITY CONTROL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | SPIKE LEVEL | SOURCE RESULT | ACCURACY | | PRECISION | | QA CODE |
|--------------------|----------|--------|------|-----|----------|-------------|---------------|----------|-----------|-----------|--------|---------|
| | | | | | | | | % | LIMITS | % | LIMITS | |
| Aldrin | NA | 394.94 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 99 | 50 - 150% | PASS | | |
| BHC-alpha | NA | 386.54 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 97 | 50 - 150% | PASS | | |
| BHC-beta | NA | 411.3 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 103 | 50 - 150% | PASS | | |
| BHC-delta | NA | 405.64 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 101 | 50 - 150% | PASS | | |
| BHC-gamma | NA | 333.58 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 83 | 50 - 150% | PASS | | |
| Chlordane-alpha | NA | 387.37 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 97 | 50 - 150% | PASS | | |
| Chlordane-gamma | NA | 437.72 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 109 | 50 - 150% | PASS | | |
| cis-Nonachlor | NA | 361.82 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 90 | 50 - 150% | PASS | | |
| DCPA (Dacthal) | NA | 302.28 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 76 | 50 - 150% | PASS | | |
| Dicofol | NA | 246.56 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 62 | 50 - 150% | PASS | | |
| Dieldrin | NA | 397.2 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 99 | 50 - 150% | PASS | | |
| Endosulfan Sulfate | NA | 353.29 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 88 | 50 - 150% | PASS | | |
| Endosulfan-I | NA | 433.29 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 108 | 50 - 150% | PASS | | |
| Endosulfan-II | NA | 355.78 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 89 | 50 - 150% | PASS | | |
| Endrin | NA | 398.08 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 100 | 25 - 125% | PASS | | |
| Endrin Aldehyde | NA | 262.17 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 66 | 0 - 125% | PASS | | |
| Endrin Ketone | NA | 352.13 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 88 | 25 - 125% | PASS | | |
| Heptachlor | NA | 426.58 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 107 | 50 - 150% | PASS | | |
| Heptachlor Epoxide | NA | 333.15 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 83 | 50 - 150% | PASS | | |
| Hexachlorobenzene | NA | 417.74 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 104 | 50 - 150% | PASS | | |
| Methoxychlor | NA | 366.77 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 92 | 50 - 150% | PASS | | |
| Mirex | NA | 390.31 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 98 | 50 - 150% | PASS | | |
| Oxychlordane | NA | 306.56 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 77 | 50 - 150% | PASS | | |
| Perthane | NA | 412.28 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 103 | 50 - 150% | PASS | | |
| trans-Nonachlor | NA | 379.52 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 95 | 50 - 150% | PASS | | |

Method: EPA 8270C-NCI

Batch ID: O-6003

Prepared: 15-Aug-13

Analyzed: 26-Aug-13

| | | | | | | | | | | | | |
|-----------|----|--------|-----|-----|----------|------|---|-----|-----------|------|--|--|
| Toxaphene | NA | 3028.8 | 0.1 | 0.2 | ng/dry g | 3000 | 0 | 101 | 50 - 150% | PASS | | |
|-----------|----|--------|-----|-----|----------|------|---|-----|-----------|------|--|--|

Sample ID: 21733-BS2

B13-8382

Matrix: Sediment

Sampled: 10-Jul-13

11:04

Received: 13-Jul-13

Method: EPA 8270C

Batch ID: O-6003

Prepared: 15-Aug-13

Analyzed: 30-Aug-13

| | | | | | | | | | | | | | |
|----------|----|-----|--|--|------------|-----|---|-----|-----------|------|---|----|------|
| (PCB030) | NA | 90 | | | % Recovery | 100 | 0 | 90 | 50 - 150% | PASS | 2 | 25 | PASS |
| (PCB112) | NA | 106 | | | % Recovery | 100 | 0 | 106 | 50 - 150% | PASS | 1 | 25 | PASS |



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CA ELAP #2769

Chlorinated Pesticides

QUALITY CONTROL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | SPIKE LEVEL | SOURCE RESULT | ACCURACY | | PRECISION | | QA CODE |
|--------------------|----------|--------|------|-----|------------|-------------|---------------|----------|-----------|-----------|--------|---------|
| | | | | | | | | % | LIMITS | % | LIMITS | |
| (PCB198) | NA | 97 | | | % Recovery | 100 | 0 | 97 | 50 - 150% | PASS | 2 25 | PASS |
| (TCMX) | NA | 88 | | | % Recovery | 100 | 0 | 88 | 50 - 150% | PASS | 1 25 | PASS |
| 2,4'-DDD | NA | 367.7 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 92 | 50 - 150% | PASS | 1 25 | PASS |
| 2,4'-DDE | NA | 393.88 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 98 | 50 - 150% | PASS | 2 25 | PASS |
| 2,4'-DDT | NA | 335.96 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 84 | 25 - 125% | PASS | 15 25 | PASS |
| 4,4'-DDD | NA | 429.68 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 107 | 50 - 150% | PASS | 5 25 | PASS |
| 4,4'-DDE | NA | 477.27 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 119 | 50 - 150% | PASS | 0 25 | PASS |
| 4,4'-DDMU | NA | 316.61 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 79 | 50 - 150% | PASS | 2 25 | PASS |
| 4,4'-DDT | NA | 392.41 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 98 | 25 - 125% | PASS | 20 25 | PASS |
| Aldrin | NA | 360.97 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 90 | 50 - 150% | PASS | 10 25 | PASS |
| BHC-alpha | NA | 368.19 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 92 | 50 - 150% | PASS | 5 25 | PASS |
| BHC-beta | NA | 350.3 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 88 | 50 - 150% | PASS | 16 25 | PASS |
| BHC-delta | NA | 387.44 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 97 | 50 - 150% | PASS | 4 25 | PASS |
| BHC-gamma | NA | 321.88 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 80 | 50 - 150% | PASS | 4 25 | PASS |
| Chlordane-alpha | NA | 381.2 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 95 | 50 - 150% | PASS | 2 25 | PASS |
| Chlordane-gamma | NA | 446.22 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 112 | 50 - 150% | PASS | 3 25 | PASS |
| cis-Nonachlor | NA | 365.22 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 91 | 50 - 150% | PASS | 1 25 | PASS |
| DCPA (Dacthal) | NA | 272.37 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 68 | 50 - 150% | PASS | 11 25 | PASS |
| Dicofol | NA | 287.13 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 72 | 50 - 150% | PASS | 15 25 | PASS |
| Dieldrin | NA | 372.93 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 93 | 50 - 150% | PASS | 6 25 | PASS |
| Endosulfan Sulfate | NA | 363.74 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 91 | 50 - 150% | PASS | 3 25 | PASS |
| Endosulfan-I | NA | 434.96 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 109 | 50 - 150% | PASS | 1 25 | PASS |
| Endosulfan-II | NA | 316.47 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 79 | 50 - 150% | PASS | 12 25 | PASS |
| Endrin | NA | 369.8 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 92 | 25 - 125% | PASS | 8 25 | PASS |
| Endrin Aldehyde | NA | 261.82 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 65 | 0 - 125% | PASS | 2 25 | PASS |
| Endrin Ketone | NA | 342.18 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 86 | 25 - 125% | PASS | 2 25 | PASS |
| Heptachlor | NA | 405.03 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 101 | 50 - 150% | PASS | 6 25 | PASS |
| Heptachlor Epoxide | NA | 329.48 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 82 | 50 - 150% | PASS | 1 25 | PASS |
| Hexachlorobenzene | NA | 410.03 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 103 | 50 - 150% | PASS | 1 25 | PASS |
| Methoxychlor | NA | 324.82 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 81 | 50 - 150% | PASS | 13 25 | PASS |
| Mirex | NA | 395.21 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 99 | 50 - 150% | PASS | 1 25 | PASS |



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CA ELAP #2769

Chlorinated Pesticides

QUALITY CONTROL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | SPIKE LEVEL | SOURCE RESULT | ACCURACY | | PRECISION | | QA CODE | |
|-----------------|----------|-----------------------|------|-----|------------------|-------------|---------------|---------------------|-----------|-----------|---------------------|---------|------|
| | | | | | | | | % | LIMITS | % | LIMITS | | |
| Oxychlorthane | NA | 317.13 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 79 | 50 - 150% | PASS | 3 | 25 | PASS |
| Perthane | NA | 382.37 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 96 | 50 - 150% | PASS | 7 | 25 | PASS |
| trans-Nonachlor | NA | 377.63 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 94 | 50 - 150% | PASS | 1 | 25 | PASS |
| | | Method: EPA 8270C-NCI | | | Batch ID: O-6003 | | | Prepared: 15-Aug-13 | | | Analyzed: 26-Aug-13 | | |
| Toxaphene | NA | 3188.5 | 0.1 | 0.2 | ng/dry g | 3000 | 0 | 106 | 50 - 150% | PASS | 5 | 25 | PASS |

Sample ID: 21744-MS1

B13-8308

Matrix: Sediment

Sampled: 11-Jul-13

17:06

Received: 13-Jul-13

Method: EPA 8270C

Batch ID: O-6003

Prepared: 15-Aug-13

Analyzed: 30-Aug-13

| | | | | | | | | | | | | | |
|--------------------|----|-------|------|-----|------------|-------|------|-----|-----------|------|--|--|--|
| (PCB030) | NA | 102 | | | % Recovery | 100 | 0 | 102 | 50 - 150% | PASS | | | |
| (PCB112) | NA | 109 | | | % Recovery | 100 | 0 | 109 | 50 - 150% | PASS | | | |
| (PCB198) | NA | 99 | | | % Recovery | 100 | 0 | 99 | 50 - 150% | PASS | | | |
| (TCMX) | NA | 83 | | | % Recovery | 100 | 0 | 83 | 50 - 150% | PASS | | | |
| 2,4'-DDD | NA | 46.92 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 98 | 50 - 150% | PASS | | | |
| 2,4'-DDE | NA | 39.95 | 0.05 | 0.1 | ng/dry g | 47.84 | 0.45 | 83 | 50 - 150% | PASS | | | |
| 2,4'-DDT | NA | 42.3 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 88 | 25 - 125% | PASS | | | |
| 4,4'-DDD | NA | 43.63 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 91 | 50 - 150% | PASS | | | |
| 4,4'-DDE | NA | 41.22 | 0.05 | 0.1 | ng/dry g | 47.84 | 2.5 | 81 | 50 - 150% | PASS | | | |
| 4,4'-DDMU | NA | 47.77 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 100 | 50 - 150% | PASS | | | |
| 4,4'-DDT | NA | 44.86 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 94 | 25 - 125% | PASS | | | |
| Aldrin | NA | 50.57 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 106 | 50 - 150% | PASS | | | |
| BHC-alpha | NA | 45.5 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 95 | 50 - 150% | PASS | | | |
| BHC-beta | NA | 48.15 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 101 | 50 - 150% | PASS | | | |
| BHC-delta | NA | 39.85 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 83 | 50 - 150% | PASS | | | |
| BHC-gamma | NA | 42.05 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 88 | 50 - 150% | PASS | | | |
| Chlordane-alpha | NA | 50.02 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 105 | 50 - 150% | PASS | | | |
| Chlordane-gamma | NA | 51.35 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 107 | 50 - 150% | PASS | | | |
| cis-Nonachlor | NA | 46.84 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 98 | 50 - 150% | PASS | | | |
| DCPA (Dacthal) | NA | 27.04 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 57 | 50 - 150% | PASS | | | |
| Dicofol | NA | 33.66 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 70 | 50 - 150% | PASS | | | |
| Dieldrin | NA | 45.12 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 94 | 50 - 150% | PASS | | | |
| Endosulfan Sulfate | NA | 43.78 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 92 | 50 - 150% | PASS | | | |
| Endosulfan-I | NA | 46.53 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 97 | 50 - 150% | PASS | | | |



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CA ELAP #2769

Chlorinated Pesticides

QUALITY CONTROL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | SPIKE LEVEL | SOURCE RESULT | ACCURACY | | PRECISION | | QA CODE |
|--------------------|----------|--------|------|-----|----------|-------------|---------------|----------|-----------|-----------|--------|---------|
| | | | | | | | | % | LIMITS | % | LIMITS | |
| Endosulfan-II | NA | 49.15 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 103 | 50 - 150% | PASS | | |
| Endrin | NA | 41.75 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 87 | 25 - 125% | PASS | | |
| Endrin Aldehyde | NA | 34.1 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 71 | 0 - 125% | PASS | | |
| Endrin Ketone | NA | 43.54 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 91 | 25 - 125% | PASS | | |
| Heptachlor | NA | 41.44 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 87 | 50 - 150% | PASS | | |
| Heptachlor Epoxide | NA | 36.84 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 77 | 50 - 150% | PASS | | |
| Hexachlorobenzene | NA | 45.72 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 96 | 50 - 150% | PASS | | |
| Methoxychlor | NA | 44.77 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 94 | 50 - 150% | PASS | | |
| Mirex | NA | 53.73 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 112 | 50 - 150% | PASS | | |
| Oxychlorane | NA | 34.85 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 73 | 50 - 150% | PASS | | |
| Perthane | NA | 40.19 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 84 | 50 - 150% | PASS | | |
| trans-Nonachlor | NA | 48.71 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 102 | 50 - 150% | PASS | | |

Method: EPA 8270C-NCI

Batch ID: O-6003

Prepared: 15-Aug-13

Analyzed: 26-Aug-13

| | | | | | | | | | | | |
|-----------|----|------|-----|-----|----------|------|---|-----|-----------|------|--|
| Toxaphene | NA | 44.5 | 0.1 | 0.2 | ng/dry g | 43.8 | 0 | 102 | 50 - 150% | PASS | |
|-----------|----|------|-----|-----|----------|------|---|-----|-----------|------|--|

Sample ID: 21744-MS2

B13-8308

Matrix: Sediment

Sampled: 11-Jul-13

17:06

Received: 13-Jul-13

Method: EPA 8270C

Batch ID: O-6003

Prepared: 15-Aug-13

Analyzed: 30-Aug-13

| | | | | | | | | | | | | | |
|-----------|----|-------|------|-----|------------|-------|------|-----|-----------|------|----|----|------|
| (PCB030) | NA | 104 | | | % Recovery | 100 | 0 | 104 | 50 - 150% | PASS | 2 | 25 | PASS |
| (PCB112) | NA | 110 | | | % Recovery | 100 | 0 | 110 | 50 - 150% | PASS | 1 | 25 | PASS |
| (PCB198) | NA | 99 | | | % Recovery | 100 | 0 | 99 | 50 - 150% | PASS | 0 | 25 | PASS |
| (TCMX) | NA | 84 | | | % Recovery | 100 | 0 | 84 | 50 - 150% | PASS | 1 | 25 | PASS |
| 2,4'-DDD | NA | 46.37 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 97 | 50 - 150% | PASS | 1 | 25 | PASS |
| 2,4'-DDE | NA | 40.55 | 0.05 | 0.1 | ng/dry g | 47.84 | 0.45 | 84 | 50 - 150% | PASS | 1 | 25 | PASS |
| 2,4'-DDT | NA | 46.27 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 97 | 25 - 125% | PASS | 10 | 25 | PASS |
| 4,4'-DDD | NA | 42.74 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 89 | 50 - 150% | PASS | 2 | 25 | PASS |
| 4,4'-DDE | NA | 41.63 | 0.05 | 0.1 | ng/dry g | 47.84 | 2.5 | 82 | 50 - 150% | PASS | 1 | 25 | PASS |
| 4,4'-DDMU | NA | 50.27 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 105 | 50 - 150% | PASS | 5 | 25 | PASS |
| 4,4'-DDT | NA | 50.26 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 105 | 25 - 125% | PASS | 11 | 25 | PASS |
| Aldrin | NA | 48.58 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 102 | 50 - 150% | PASS | 4 | 25 | PASS |
| BHC-alpha | NA | 47.72 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 100 | 50 - 150% | PASS | 5 | 25 | PASS |
| BHC-beta | NA | 46.76 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 98 | 50 - 150% | PASS | 3 | 25 | PASS |
| BHC-delta | NA | 41.55 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 87 | 50 - 150% | PASS | 5 | 25 | PASS |



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Chlorinated Pesticides

QUALITY CONTROL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | SPIKE LEVEL | SOURCE RESULT | ACCURACY | | PRECISION | | QA CODE | |
|--------------------|----------|--------|------|-----|----------|-------------|---------------|----------|-----------|-----------|--------|---------|------|
| | | | | | | | | % | LIMITS | % | LIMITS | | |
| BHC-gamma | NA | 39.95 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 84 | 50 - 150% | PASS | 5 | 25 | PASS |
| Chlordane-alpha | NA | 50.04 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 105 | 50 - 150% | PASS | 0 | 25 | PASS |
| Chlordane-gamma | NA | 53.3 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 111 | 50 - 150% | PASS | 4 | 25 | PASS |
| cis-Nonachlor | NA | 46.29 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 97 | 50 - 150% | PASS | 1 | 25 | PASS |
| DCPA (Dacthal) | NA | 26.85 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 56 | 50 - 150% | PASS | 2 | 25 | PASS |
| Dicofol | NA | 35.18 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 74 | 50 - 150% | PASS | 6 | 25 | PASS |
| Dieldrin | NA | 48.55 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 101 | 50 - 150% | PASS | 7 | 25 | PASS |
| Endosulfan Sulfate | NA | 48.15 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 101 | 50 - 150% | PASS | 9 | 25 | PASS |
| Endosulfan-I | NA | 44.27 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 93 | 50 - 150% | PASS | 4 | 25 | PASS |
| Endosulfan-II | NA | 49.69 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 104 | 50 - 150% | PASS | 1 | 25 | PASS |
| Endrin | NA | 45.94 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 96 | 25 - 125% | PASS | 10 | 25 | PASS |
| Endrin Aldehyde | NA | 41.3 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 86 | 0 - 125% | PASS | 19 | 25 | PASS |
| Endrin Ketone | NA | 45.11 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 94 | 25 - 125% | PASS | 3 | 25 | PASS |
| Heptachlor | NA | 42.24 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 88 | 50 - 150% | PASS | 1 | 25 | PASS |
| Heptachlor Epoxide | NA | 37.18 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 78 | 50 - 150% | PASS | 1 | 25 | PASS |
| Hexachlorobenzene | NA | 46.34 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 97 | 50 - 150% | PASS | 1 | 25 | PASS |
| Methoxychlor | NA | 46.54 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 97 | 50 - 150% | PASS | 3 | 25 | PASS |
| Mirex | NA | 54.75 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 114 | 50 - 150% | PASS | 2 | 25 | PASS |
| Oxychlorane | NA | 36.37 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 76 | 50 - 150% | PASS | 4 | 25 | PASS |
| Perthane | NA | 40.01 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 84 | 50 - 150% | PASS | 0 | 25 | PASS |
| trans-Nonachlor | NA | 50.79 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 106 | 50 - 150% | PASS | 4 | 25 | PASS |

Method: EPA 8270C-NCI

Batch ID: O-6003

Prepared: 15-Aug-13

Analyzed: 26-Aug-13

| | | | | | | | | | | | | | |
|-----------|----|------|-----|-----|----------|------|---|-----|-----------|------|---|----|------|
| Toxaphene | NA | 43.6 | 0.1 | 0.2 | ng/dry g | 42.3 | 0 | 103 | 50 - 150% | PASS | 1 | 25 | PASS |
|-----------|----|------|-----|-----|----------|------|---|-----|-----------|------|---|----|------|

Sample ID: 21744-R2

B13-8308

Matrix: Sediment

Sampled: 11-Jul-13

17:06

Received: 13-Jul-13

Method: EPA 8270C

Batch ID: O-6003

Prepared: 15-Aug-13

Analyzed: 30-Aug-13

| | | | | | | | | | | | | | |
|----------|----|-----|------|-----|------------|-----|--|-----|-----------|------|----|----|------|
| (PCB030) | NA | 104 | | | % Recovery | 100 | | 104 | 50 - 150% | PASS | 1 | 25 | PASS |
| (PCB112) | NA | 114 | | | % Recovery | 100 | | 114 | 50 - 150% | PASS | 5 | 25 | PASS |
| (PCB198) | NA | 100 | | | % Recovery | 100 | | 100 | 50 - 150% | PASS | 3 | 25 | PASS |
| (TCMX) | NA | 103 | | | % Recovery | 100 | | 103 | 50 - 150% | PASS | 2 | 25 | PASS |
| 2,4'-DDD | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | 0 | 25 | PASS |
| 2,4'-DDE | NA | 0.4 | 0.05 | 0.1 | ng/dry g | | | | | | 22 | 25 | PASS |



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CA ELAP #2769

Chlorinated Pesticides

QUALITY CONTROL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | SPIKE LEVEL | SOURCE RESULT | ACCURACY | | PRECISION | | QA CODE |
|--------------------|----------|--------|------|-----|----------|----------------|------------------|----------|--------|-----------|--------|---------|
| | | | | | | | | % | LIMITS | % | LIMITS | |
| 2,4'-DDT | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS |
| 4,4'-DDD | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS |
| 4,4'-DDE | NA | 2.5 | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS |
| 4,4'-DDMU | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS |
| 4,4'-DDT | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS |
| Aldrin | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS |
| BHC-alpha | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS |
| BHC-beta | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS |
| BHC-delta | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS |
| BHC-gamma | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS |
| Chlordane-alpha | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS |
| Chlordane-gamma | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS |
| cis-Nonachlor | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS |
| DCPA (Dacthal) | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS |
| Dicofol | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS |
| Dieldrin | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS |
| Endosulfan Sulfate | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS |
| Endosulfan-I | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS |
| Endosulfan-II | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS |
| Endrin | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS |
| Endrin Aldehyde | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS |
| Endrin Ketone | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS |
| Heptachlor | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS |
| Heptachlor Epoxide | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS |
| Hexachlorobenzene | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS |
| Methoxychlor | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS |
| Mirex | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS |
| Oxychlordane | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS |
| Perthane | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS |
| trans-Nonachlor | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS |

Method: EPA 8270C-NCI

Batch ID: O-6003

Prepared: 15-Aug-13

Analyzed: 26-Aug-13



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CA ELAP #2769

Chlorinated Pesticides

QUALITY CONTROL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | SPIKE LEVEL | SOURCE RESULT | ACCURACY % | PRECISION % | QA CODE |
|-----------|----------|--------|-----|-----|----------|-------------|---------------|------------|-------------|---------|
| | | | | | | | | LIMITS | LIMITS | |
| Toxaphene | NA | ND | 0.1 | 0.2 | ng/dry g | | | | 0 25 | PASS |

Sample ID: 21753-MS1

B13-8397

Method: EPA 8270C

Matrix: Sediment

Batch ID: O-6001

Sampled: 12-Jul-13

11:20

Received: 13-Jul-13

Prepared: 09-Aug-13

Analyzed: 30-Aug-13

| | | | | | | | | | | |
|--------------------|----|-------|------|-----|------------|-------|------|-----|-----------|------|
| (PCB030) | NA | 87 | | | % Recovery | 100 | 0 | 87 | 50 - 150% | PASS |
| (PCB112) | NA | 105 | | | % Recovery | 100 | 0 | 105 | 50 - 150% | PASS |
| (PCB198) | NA | 107 | | | % Recovery | 100 | 0 | 107 | 50 - 150% | PASS |
| (TCMX) | NA | 86 | | | % Recovery | 100 | 0 | 86 | 50 - 150% | PASS |
| 2,4'-DDD | NA | 58.16 | 0.05 | 0.1 | ng/dry g | 72.02 | 0 | 81 | 50 - 150% | PASS |
| 2,4'-DDE | NA | 73.28 | 0.05 | 0.1 | ng/dry g | 72.02 | 0.8 | 101 | 50 - 150% | PASS |
| 2,4'-DDT | NA | 56.36 | 0.05 | 0.1 | ng/dry g | 72.02 | 0 | 78 | 25 - 125% | PASS |
| 4,4'-DDD | NA | 66.26 | 0.05 | 0.1 | ng/dry g | 72.02 | 2.9 | 88 | 50 - 150% | PASS |
| 4,4'-DDE | NA | 62.12 | 0.05 | 0.1 | ng/dry g | 72.02 | 9.35 | 73 | 50 - 150% | PASS |
| 4,4'-DDMU | NA | 93.44 | 0.05 | 0.1 | ng/dry g | 72.02 | 0 | 130 | 50 - 150% | PASS |
| 4,4'-DDT | NA | 63.56 | 0.05 | 0.1 | ng/dry g | 72.02 | 0 | 88 | 25 - 125% | PASS |
| Aldrin | NA | 71.3 | 0.05 | 0.1 | ng/dry g | 72.02 | 0 | 99 | 50 - 150% | PASS |
| BHC-alpha | NA | 84.08 | 0.05 | 0.1 | ng/dry g | 72.02 | 0 | 117 | 50 - 150% | PASS |
| BHC-beta | NA | 59.24 | 0.05 | 0.1 | ng/dry g | 72.02 | 0 | 82 | 50 - 150% | PASS |
| BHC-delta | NA | 72.56 | 0.05 | 0.1 | ng/dry g | 72.02 | 0 | 101 | 50 - 150% | PASS |
| BHC-gamma | NA | 78.5 | 0.05 | 0.1 | ng/dry g | 72.02 | 0 | 109 | 50 - 150% | PASS |
| Chlordane-alpha | NA | 72.02 | 0.05 | 0.1 | ng/dry g | 72.02 | 0 | 100 | 50 - 150% | PASS |
| Chlordane-gamma | NA | 75.44 | 0.05 | 0.1 | ng/dry g | 72.02 | 0.4 | 104 | 50 - 150% | PASS |
| cis-Nonachlor | NA | 67.88 | 0.05 | 0.1 | ng/dry g | 72.02 | 0.25 | 94 | 50 - 150% | PASS |
| DCPA (Dacthal) | NA | 52.03 | 0.05 | 0.1 | ng/dry g | 72.02 | 0 | 72 | 50 - 150% | PASS |
| Dicofol | NA | 37.63 | 0.05 | 0.1 | ng/dry g | 72.02 | 0 | 52 | 50 - 150% | PASS |
| Dieldrin | NA | 61.58 | 0.05 | 0.1 | ng/dry g | 72.02 | 0 | 86 | 50 - 150% | PASS |
| Endosulfan Sulfate | NA | 58.52 | 0.05 | 0.1 | ng/dry g | 72.02 | 0 | 81 | 50 - 150% | PASS |
| Endosulfan-I | NA | 72.2 | 0.05 | 0.1 | ng/dry g | 72.02 | 0 | 100 | 50 - 150% | PASS |
| Endosulfan-II | NA | 68.6 | 0.05 | 0.1 | ng/dry g | 72.02 | 0 | 95 | 50 - 150% | PASS |
| Endrin | NA | 65.72 | 0.05 | 0.1 | ng/dry g | 72.02 | 0 | 91 | 25 - 125% | PASS |
| Endrin Aldehyde | NA | 54.92 | 0.05 | 0.1 | ng/dry g | 72.02 | 0 | 76 | 0 - 125% | PASS |
| Endrin Ketone | NA | 64.82 | 0.05 | 0.1 | ng/dry g | 72.02 | 0 | 90 | 25 - 125% | PASS |



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Chlorinated Pesticides

QUALITY CONTROL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | SPIKE LEVEL | SOURCE RESULT | ACCURACY | | PRECISION | | QA CODE |
|--------------------|----------|--------|------|-----|----------|-------------|---------------|----------|-----------|-----------|--------|---------|
| | | | | | | | | % | LIMITS | % | LIMITS | |
| Heptachlor | NA | 69.86 | 0.05 | 0.1 | ng/dry g | 72.02 | 0 | 97 | 50 - 150% | PASS | | |
| Heptachlor Epoxide | NA | 67.34 | 0.05 | 0.1 | ng/dry g | 72.02 | 0 | 94 | 50 - 150% | PASS | | |
| Hexachlorobenzene | NA | 68.24 | 0.05 | 0.1 | ng/dry g | 72.02 | 0 | 95 | 50 - 150% | PASS | | |
| Methoxychlor | NA | 57.8 | 0.05 | 0.1 | ng/dry g | 72.02 | 0 | 80 | 50 - 150% | PASS | | |
| Mirex | NA | 62.12 | 0.05 | 0.1 | ng/dry g | 72.02 | 0 | 86 | 50 - 150% | PASS | | |
| Oxychlorane | NA | 57.44 | 0.05 | 0.1 | ng/dry g | 72.02 | 0 | 80 | 50 - 150% | PASS | | |
| Perthane | NA | 71.84 | 0.05 | 0.1 | ng/dry g | 72.02 | 0 | 100 | 50 - 150% | PASS | | |
| trans-Nonachlor | NA | 72.02 | 0.05 | 0.1 | ng/dry g | 72.02 | 0.6 | 99 | 50 - 150% | PASS | | |

Method: EPA 8270C-NCI

Batch ID: O-6001

Prepared: 09-Aug-13

Analyzed: 24-Aug-13

| | | | | | | | | | | | | |
|-----------|----|------|-----|-----|----------|------|---|-----|-----------|------|--|--|
| Toxaphene | NA | 91.6 | 0.1 | 0.2 | ng/dry g | 91.3 | 0 | 100 | 50 - 150% | PASS | | |
|-----------|----|------|-----|-----|----------|------|---|-----|-----------|------|--|--|

Sample ID: 21753-MS2

B13-8397

Matrix: Sediment

Sampled: 12-Jul-13

11:20

Received: 13-Jul-13

Method: EPA 8270C

Batch ID: O-6001

Prepared: 09-Aug-13

Analyzed: 30-Aug-13

| | | | | | | | | | | | | | |
|-----------------|----|-------|------|-----|------------|-------|------|-----|-----------|------|----|----|------|
| (PCB030) | NA | 90 | | | % Recovery | 100 | 0 | 90 | 50 - 150% | PASS | 3 | 25 | PASS |
| (PCB112) | NA | 108 | | | % Recovery | 100 | 0 | 108 | 50 - 150% | PASS | 3 | 25 | PASS |
| (PCB198) | NA | 130 | | | % Recovery | 100 | 0 | 130 | 50 - 150% | PASS | 19 | 25 | PASS |
| (TCMX) | NA | 87 | | | % Recovery | 100 | 0 | 87 | 50 - 150% | PASS | 1 | 25 | PASS |
| 2,4'-DDD | NA | 61.94 | 0.05 | 0.1 | ng/dry g | 72.02 | 0 | 86 | 50 - 150% | PASS | 6 | 25 | PASS |
| 2,4'-DDE | NA | 60.14 | 0.05 | 0.1 | ng/dry g | 72.02 | 0.8 | 82 | 50 - 150% | PASS | 21 | 25 | PASS |
| 2,4'-DDT | NA | 55.64 | 0.05 | 0.1 | ng/dry g | 72.02 | 0 | 77 | 25 - 125% | PASS | 1 | 25 | PASS |
| 4,4'-DDD | NA | 56.72 | 0.05 | 0.1 | ng/dry g | 72.02 | 2.9 | 75 | 50 - 150% | PASS | 16 | 25 | PASS |
| 4,4'-DDE | NA | 66.62 | 0.05 | 0.1 | ng/dry g | 72.02 | 9.35 | 80 | 50 - 150% | PASS | 9 | 25 | PASS |
| 4,4'-DDMU | NA | 93.32 | 0.05 | 0.1 | ng/dry g | 72.02 | 0 | 130 | 50 - 150% | PASS | 0 | 25 | PASS |
| 4,4'-DDT | NA | 56.18 | 0.05 | 0.1 | ng/dry g | 72.02 | 0 | 78 | 25 - 125% | PASS | 12 | 25 | PASS |
| Aldrin | NA | 71.48 | 0.05 | 0.1 | ng/dry g | 72.02 | 0 | 99 | 50 - 150% | PASS | 0 | 25 | PASS |
| BHC-alpha | NA | 73.64 | 0.05 | 0.1 | ng/dry g | 72.02 | 0 | 102 | 50 - 150% | PASS | 14 | 25 | PASS |
| BHC-beta | NA | 72.38 | 0.05 | 0.1 | ng/dry g | 72.02 | 0 | 100 | 50 - 150% | PASS | 20 | 25 | PASS |
| BHC-delta | NA | 58.34 | 0.05 | 0.1 | ng/dry g | 72.02 | 0 | 81 | 50 - 150% | PASS | 22 | 25 | PASS |
| BHC-gamma | NA | 64.28 | 0.05 | 0.1 | ng/dry g | 72.02 | 0 | 89 | 50 - 150% | PASS | 20 | 25 | PASS |
| Chlordane-alpha | NA | 59.42 | 0.05 | 0.1 | ng/dry g | 72.02 | 0 | 83 | 50 - 150% | PASS | 19 | 25 | PASS |
| Chlordane-gamma | NA | 60.5 | 0.05 | 0.1 | ng/dry g | 72.02 | 0.4 | 83 | 50 - 150% | PASS | 22 | 25 | PASS |
| cis-Nonachlor | NA | 70.58 | 0.05 | 0.1 | ng/dry g | 72.02 | 0.25 | 98 | 50 - 150% | PASS | 4 | 25 | PASS |



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CA ELAP #2769

Chlorinated Pesticides

QUALITY CONTROL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | SPIKE LEVEL | SOURCE RESULT | ACCURACY | | PRECISION | | QA CODE | |
|--------------------|----------|--------|------|-----|----------|-------------|---------------|----------|-----------|-----------|--------|---------|------|
| | | | | | | | | % | LIMITS | % | LIMITS | | |
| DCPA (Dacthal) | NA | 40.15 | 0.05 | 0.1 | ng/dry g | 72.02 | 0 | 56 | 50 - 150% | PASS | 25 | 25 | PASS |
| Dicofol | NA | 36.37 | 0.05 | 0.1 | ng/dry g | 72.02 | 0 | 50 | 50 - 150% | PASS | 4 | 25 | PASS |
| Dieldrin | NA | 70.76 | 0.05 | 0.1 | ng/dry g | 72.02 | 0 | 98 | 50 - 150% | PASS | 13 | 25 | PASS |
| Endosulfan Sulfate | NA | 59.6 | 0.05 | 0.1 | ng/dry g | 72.02 | 0 | 83 | 50 - 150% | PASS | 2 | 25 | PASS |
| Endosulfan-I | NA | 71.66 | 0.05 | 0.1 | ng/dry g | 72.02 | 0 | 100 | 50 - 150% | PASS | 0 | 25 | PASS |
| Endosulfan-II | NA | 58.52 | 0.05 | 0.1 | ng/dry g | 72.02 | 0 | 81 | 50 - 150% | PASS | 16 | 25 | PASS |
| Endrin | NA | 63.2 | 0.05 | 0.1 | ng/dry g | 72.02 | 0 | 88 | 25 - 125% | PASS | 3 | 25 | PASS |
| Endrin Aldehyde | NA | 59.24 | 0.05 | 0.1 | ng/dry g | 72.02 | 0 | 82 | 0 - 125% | PASS | 8 | 25 | PASS |
| Endrin Ketone | NA | 67.34 | 0.05 | 0.1 | ng/dry g | 72.02 | 0 | 94 | 25 - 125% | PASS | 4 | 25 | PASS |
| Heptachlor | NA | 70.58 | 0.05 | 0.1 | ng/dry g | 72.02 | 0 | 98 | 50 - 150% | PASS | 1 | 25 | PASS |
| Heptachlor Epoxide | NA | 56.54 | 0.05 | 0.1 | ng/dry g | 72.02 | 0 | 79 | 50 - 150% | PASS | 17 | 25 | PASS |
| Hexachlorobenzene | NA | 72.02 | 0.05 | 0.1 | ng/dry g | 72.02 | 0 | 100 | 50 - 150% | PASS | 5 | 25 | PASS |
| Methoxychlor | NA | 56.36 | 0.05 | 0.1 | ng/dry g | 72.02 | 0 | 78 | 50 - 150% | PASS | 3 | 25 | PASS |
| Mirex | NA | 63.38 | 0.05 | 0.1 | ng/dry g | 72.02 | 0 | 88 | 50 - 150% | PASS | 2 | 25 | PASS |
| Oxychlorodane | NA | 56.18 | 0.05 | 0.1 | ng/dry g | 72.02 | 0 | 78 | 50 - 150% | PASS | 3 | 25 | PASS |
| Perthane | NA | 58.16 | 0.05 | 0.1 | ng/dry g | 72.02 | 0 | 81 | 50 - 150% | PASS | 21 | 25 | PASS |
| trans-Nonachlor | NA | 57.26 | 0.05 | 0.1 | ng/dry g | 72.02 | 0.6 | 79 | 50 - 150% | PASS | 22 | 25 | PASS |

Method: EPA 8270C-NCI

Batch ID: O-6001

Prepared: 09-Aug-13

Analyzed: 24-Aug-13

| | | | | | | | | | | | | | |
|-----------|----|------|-----|-----|----------|------|---|----|-----------|------|---|----|------|
| Toxaphene | NA | 96.9 | 0.1 | 0.2 | ng/dry g | 99.8 | 0 | 97 | 50 - 150% | PASS | 3 | 25 | PASS |
|-----------|----|------|-----|-----|----------|------|---|----|-----------|------|---|----|------|

Sample ID: 21753-R2

B13-8397

Matrix: Sediment

Sampled: 12-Jul-13

11:20

Received: 13-Jul-13

Method: EPA 8270C

Batch ID: O-6001

Prepared: 09-Aug-13

Analyzed: 30-Aug-13

| | | | | | | | | | | | | | |
|-----------|----|-----|------|-----|------------|-----|--|-----|-----------|------|----|----|------|
| (PCB030) | NA | 102 | | | % Recovery | 100 | | 102 | 50 - 150% | PASS | 2 | 25 | PASS |
| (PCB112) | NA | 107 | | | % Recovery | 100 | | 107 | 50 - 150% | PASS | 1 | 25 | PASS |
| (PCB198) | NA | 100 | | | % Recovery | 100 | | 100 | 50 - 150% | PASS | 1 | 25 | PASS |
| (TCMX) | NA | 101 | | | % Recovery | 100 | | 101 | 50 - 150% | PASS | 3 | 25 | PASS |
| 2,4'-DDD | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | 0 | 25 | PASS |
| 2,4'-DDE | NA | 0.8 | 0.05 | 0.1 | ng/dry g | | | | | | 0 | 25 | PASS |
| 2,4'-DDT | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | 0 | 25 | PASS |
| 4,4'-DDD | NA | 2.8 | 0.05 | 0.1 | ng/dry g | | | | | | 7 | 25 | PASS |
| 4,4'-DDE | NA | 8.3 | 0.05 | 0.1 | ng/dry g | | | | | | 22 | 25 | PASS |
| 4,4'-DDMU | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | 0 | 25 | PASS |



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CA ELAP #2769

Chlorinated Pesticides

QUALITY CONTROL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | SPIKE LEVEL | SOURCE RESULT | ACCURACY | | PRECISION | | QA CODE | |
|--------------------|----------|--------|------|-----|----------|-------------|---------------|----------|--------|-----------|--------|---------|----|
| | | | | | | | | % | LIMITS | % | LIMITS | | |
| 4,4'-DDT | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS | |
| Aldrin | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS | |
| BHC-alpha | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS | |
| BHC-beta | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS | |
| BHC-delta | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS | |
| BHC-gamma | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS | |
| Chlordane-alpha | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS | |
| Chlordane-gamma | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 176 | 25 | FAIL | SL |
| cis-Nonachlor | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 164 | 25 | FAIL | SL |
| DCPA (Dacthal) | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS | |
| Dicofol | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS | |
| Dieldrin | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS | |
| Endosulfan Sulfate | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS | |
| Endosulfan-I | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS | |
| Endosulfan-II | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS | |
| Endrin | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS | |
| Endrin Aldehyde | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS | |
| Endrin Ketone | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS | |
| Heptachlor | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS | |
| Heptachlor Epoxide | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS | |
| Hexachlorobenzene | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS | |
| Methoxychlor | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS | |
| Mirex | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS | |
| Oxychlordane | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS | |
| Perthane | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS | |
| trans-Nonachlor | NA | 0.5 | 0.05 | 0.1 | ng/dry g | | | | | 33 | 25 | FAIL | NH |

Method: EPA 8270C-NCI

Batch ID: O-6001

Prepared: 09-Aug-13

Analyzed: 24-Aug-13

| | | | | | | | | | | | | | |
|-----------|----|----|-----|-----|----------|--|--|--|--|---|----|------|--|
| Toxaphene | NA | ND | 0.1 | 0.2 | ng/dry g | | | | | 0 | 25 | PASS | |
|-----------|----|----|-----|-----|----------|--|--|--|--|---|----|------|--|

Sample ID: 21764-MS1

B13-8356

Matrix: Sediment

Sampled: 13-Jul-13

9:22

Received: 13-Jul-13

Method: EPA 8270C

Batch ID: O-6005

Prepared: 24-Aug-13

Analyzed: 06-Sep-13

| | | | | | | | | | | | | | |
|----------|----|-----|--|--|------------|-----|---|-----|-----------|------|--|--|--|
| (PCB030) | NA | 106 | | | % Recovery | 100 | 0 | 106 | 50 - 150% | PASS | | | |
|----------|----|-----|--|--|------------|-----|---|-----|-----------|------|--|--|--|



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CA ELAP #2769

Chlorinated Pesticides

QUALITY CONTROL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | SPIKE LEVEL | SOURCE RESULT | ACCURACY | | PRECISION | | QA CODE |
|--------------------|----------|--------|------|-----|------------|-------------|---------------|----------|-----------|-----------|--------|---------|
| | | | | | | | | % | LIMITS | % | LIMITS | |
| (PCB112) | NA | 105 | | | % Recovery | 100 | 0 | 105 | 50 - 150% | PASS | | |
| (PCB198) | NA | 116 | | | % Recovery | 100 | 0 | 116 | 50 - 150% | PASS | | |
| (TCMX) | NA | 104 | | | % Recovery | 100 | 0 | 104 | 50 - 150% | PASS | | |
| 2,4'-DDD | NA | 39.88 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 86 | 50 - 150% | PASS | | |
| 2,4'-DDE | NA | 40.21 | 0.05 | 0.1 | ng/dry g | 46.44 | 0.15 | 86 | 50 - 150% | PASS | | |
| 2,4'-DDT | NA | 35.31 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 76 | 25 - 125% | PASS | | |
| 4,4'-DDD | NA | 45.78 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 99 | 50 - 150% | PASS | | |
| 4,4'-DDE | NA | 42.88 | 0.05 | 0.1 | ng/dry g | 46.44 | 1.05 | 90 | 50 - 150% | PASS | | |
| 4,4'-DDMU | NA | 42.35 | 0.05 | 0.1 | ng/dry g | 46.44 | 0.5 | 90 | 50 - 150% | PASS | | |
| 4,4'-DDT | NA | 34.71 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 75 | 25 - 125% | PASS | | |
| Aldrin | NA | 44.93 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 97 | 50 - 150% | PASS | | |
| BHC-alpha | NA | 43.9 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 95 | 50 - 150% | PASS | | |
| BHC-beta | NA | 45.68 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 98 | 50 - 150% | PASS | | |
| BHC-delta | NA | 47.86 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 103 | 50 - 150% | PASS | | |
| BHC-gamma | NA | 42.17 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 91 | 50 - 150% | PASS | | |
| Chlordane-alpha | NA | 40.56 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 87 | 50 - 150% | PASS | | |
| Chlordane-gamma | NA | 44.03 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 95 | 50 - 150% | PASS | | |
| cis-Nonachlor | NA | 48.68 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 105 | 50 - 150% | PASS | | |
| DCPA (Dacthal) | NA | 31.02 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 67 | 50 - 150% | PASS | | |
| Dicofol | NA | 31.09 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 67 | 50 - 150% | PASS | | |
| Dieldrin | NA | 42.27 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 91 | 50 - 150% | PASS | | |
| Endosulfan Sulfate | NA | 38.07 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 82 | 50 - 150% | PASS | | |
| Endosulfan-I | NA | 46.23 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 100 | 50 - 150% | PASS | | |
| Endosulfan-II | NA | 43.91 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 95 | 50 - 150% | PASS | | |
| Endrin | NA | 37.9 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 82 | 25 - 125% | PASS | | |
| Endrin Aldehyde | NA | 37.92 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 82 | 0 - 125% | PASS | | |
| Endrin Ketone | NA | 44.51 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 96 | 25 - 125% | PASS | | |
| Heptachlor | NA | 44.59 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 96 | 50 - 150% | PASS | | |
| Heptachlor Epoxide | NA | 47.08 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 101 | 50 - 150% | PASS | | |
| Hexachlorobenzene | NA | 46.47 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 100 | 50 - 150% | PASS | | |
| Methoxychlor | NA | 38.01 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 82 | 50 - 150% | PASS | | |



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CA ELAP #2769

Chlorinated Pesticides

QUALITY CONTROL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | SPIKE LEVEL | SOURCE RESULT | ACCURACY % | PRECISION % | QA CODE | |
|-----------------|----------|-----------------------|------|-----|------------------|-------------|---------------------|------------|---------------------|---------|--|
| | | | | | | | | LIMITS | LIMITS | | |
| Mirex | NA | 46.19 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 99 | 50 - 150% | PASS | |
| Oxychlorodane | NA | 43.86 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 94 | 50 - 150% | PASS | |
| Perthane | NA | 43.79 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 94 | 50 - 150% | PASS | |
| trans-Nonachlor | NA | 40.35 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 87 | 50 - 150% | PASS | |
| | | Method: EPA 8270C-NCI | | | Batch ID: O-6005 | | Prepared: 24-Aug-13 | | Analyzed: 06-Sep-13 | | |
| Toxaphene | NA | 42.3 | 0.1 | 0.2 | ng/dry g | 41.9 | 0 | 101 | 50 - 150% | PASS | |

Sample ID: 21764-MS2

B13-8356

Matrix: Sediment

Sampled: 13-Jul-13

9:22

Received: 13-Jul-13

Method: EPA 8270C

Batch ID: O-6005

Prepared: 24-Aug-13

Analyzed: 06-Sep-13

| | | | | | | | | | | | | | |
|--------------------|----|-------|------|-----|------------|-------|------|-----|-----------|------|----|----|------|
| (PCB030) | NA | 101 | | | % Recovery | 100 | 0 | 101 | 50 - 150% | PASS | 5 | 25 | PASS |
| (PCB112) | NA | 104 | | | % Recovery | 100 | 0 | 104 | 50 - 150% | PASS | 1 | 25 | PASS |
| (PCB198) | NA | 104 | | | % Recovery | 100 | 0 | 104 | 50 - 150% | PASS | 11 | 25 | PASS |
| (TCMX) | NA | 99 | | | % Recovery | 100 | 0 | 99 | 50 - 150% | PASS | 5 | 25 | PASS |
| 2,4'-DDD | NA | 40.54 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 87 | 50 - 150% | PASS | 1 | 25 | PASS |
| 2,4'-DDE | NA | 39.56 | 0.05 | 0.1 | ng/dry g | 46.44 | 0.15 | 85 | 50 - 150% | PASS | 1 | 25 | PASS |
| 2,4'-DDT | NA | 33.05 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 71 | 25 - 125% | PASS | 7 | 25 | PASS |
| 4,4'-DDD | NA | 46.11 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 99 | 50 - 150% | PASS | 0 | 25 | PASS |
| 4,4'-DDE | NA | 42.32 | 0.05 | 0.1 | ng/dry g | 46.44 | 1.05 | 89 | 50 - 150% | PASS | 1 | 25 | PASS |
| 4,4'-DDMU | NA | 42.09 | 0.05 | 0.1 | ng/dry g | 46.44 | 0.5 | 90 | 50 - 150% | PASS | 0 | 25 | PASS |
| 4,4'-DDT | NA | 39.17 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 84 | 25 - 125% | PASS | 11 | 25 | PASS |
| Aldrin | NA | 43.6 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 94 | 50 - 150% | PASS | 3 | 25 | PASS |
| BHC-alpha | NA | 41.61 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 90 | 50 - 150% | PASS | 5 | 25 | PASS |
| BHC-beta | NA | 44.97 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 97 | 50 - 150% | PASS | 1 | 25 | PASS |
| BHC-delta | NA | 46.38 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 100 | 50 - 150% | PASS | 3 | 25 | PASS |
| BHC-gamma | NA | 40.86 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 88 | 50 - 150% | PASS | 3 | 25 | PASS |
| Chlordane-alpha | NA | 39.42 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 85 | 50 - 150% | PASS | 2 | 25 | PASS |
| Chlordane-gamma | NA | 43.51 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 94 | 50 - 150% | PASS | 1 | 25 | PASS |
| cis-Nonachlor | NA | 48.31 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 104 | 50 - 150% | PASS | 1 | 25 | PASS |
| DCPA (Dacthal) | NA | 30.73 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 66 | 50 - 150% | PASS | 2 | 25 | PASS |
| Dicofol | NA | 28.32 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 61 | 50 - 150% | PASS | 9 | 25 | PASS |
| Dieldrin | NA | 41.98 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 90 | 50 - 150% | PASS | 1 | 25 | PASS |
| Endosulfan Sulfate | NA | 37.48 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 81 | 50 - 150% | PASS | 1 | 25 | PASS |



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CA ELAP #2769

Chlorinated Pesticides

QUALITY CONTROL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | SPIKE LEVEL | SOURCE RESULT | ACCURACY | | PRECISION | | QA CODE | |
|--------------------|----------|--------|------|-----|----------|-------------|---------------|----------|-----------|-----------|--------|---------|------|
| | | | | | | | | % | LIMITS | % | LIMITS | | |
| Endosulfan-I | NA | 46.84 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 101 | 50 - 150% | PASS | 1 | 25 | PASS |
| Endosulfan-II | NA | 40.61 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 87 | 50 - 150% | PASS | 9 | 25 | PASS |
| Endrin | NA | 37.93 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 82 | 25 - 125% | PASS | 0 | 25 | PASS |
| Endrin Aldehyde | NA | 40.75 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 88 | 0 - 125% | PASS | 7 | 25 | PASS |
| Endrin Ketone | NA | 42.4 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 91 | 25 - 125% | PASS | 5 | 25 | PASS |
| Heptachlor | NA | 42.88 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 92 | 50 - 150% | PASS | 4 | 25 | PASS |
| Heptachlor Epoxide | NA | 43.15 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 93 | 50 - 150% | PASS | 8 | 25 | PASS |
| Hexachlorobenzene | NA | 44.13 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 95 | 50 - 150% | PASS | 5 | 25 | PASS |
| Methoxychlor | NA | 40.71 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 88 | 50 - 150% | PASS | 7 | 25 | PASS |
| Mirex | NA | 44.46 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 96 | 50 - 150% | PASS | 3 | 25 | PASS |
| Oxychlorodane | NA | 41.09 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 88 | 50 - 150% | PASS | 7 | 25 | PASS |
| Perthane | NA | 43.5 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 94 | 50 - 150% | PASS | 0 | 25 | PASS |
| trans-Nonachlor | NA | 39.67 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 85 | 50 - 150% | PASS | 2 | 25 | PASS |

Method: EPA 8270C-NCI

Batch ID: O-6005

Prepared: 24-Aug-13

Analyzed: 06-Sep-13

| | | | | | | | | | | | | | |
|-----------|----|------|-----|-----|----------|------|---|-----|-----------|------|---|----|------|
| Toxaphene | NA | 42.4 | 0.1 | 0.2 | ng/dry g | 42.2 | 0 | 100 | 50 - 150% | PASS | 1 | 25 | PASS |
|-----------|----|------|-----|-----|----------|------|---|-----|-----------|------|---|----|------|

Sample ID: 21764-R2

B13-8356

Matrix: Sediment

Sampled: 13-Jul-13

9:22

Received: 13-Jul-13

Method: EPA 8270C

Batch ID: O-6005

Prepared: 24-Aug-13

Analyzed: 06-Sep-13

| | | | | | | | | | | | | | | |
|-----------|----|-----|------|-----|------------|-----|--|-----|-----------|------|----|----|------|----|
| (PCB030) | NA | 95 | | | % Recovery | 100 | | 95 | 50 - 150% | PASS | 7 | 25 | PASS | |
| (PCB112) | NA | 100 | | | % Recovery | 100 | | 100 | 50 - 150% | PASS | 2 | 25 | PASS | |
| (PCB198) | NA | 98 | | | % Recovery | 100 | | 98 | 50 - 150% | PASS | 7 | 25 | PASS | |
| (TCMX) | NA | 91 | | | % Recovery | 100 | | 91 | 50 - 150% | PASS | 4 | 25 | PASS | |
| 2,4'-DDD | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | 0 | 25 | PASS | |
| 2,4'-DDE | NA | 0.1 | 0.05 | 0.1 | ng/dry g | | | | | | 67 | 25 | FAIL | SL |
| 2,4'-DDT | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | 0 | 25 | PASS | |
| 4,4'-DDD | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | 0 | 25 | PASS | |
| 4,4'-DDE | NA | 1 | 0.05 | 0.1 | ng/dry g | | | | | | 10 | 25 | PASS | |
| 4,4'-DDMU | NA | 0.5 | 0.05 | 0.1 | ng/dry g | | | | | | 0 | 25 | PASS | |
| 4,4'-DDT | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | 0 | 25 | PASS | |
| Aldrin | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | 0 | 25 | PASS | |
| BHC-alpha | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | 0 | 25 | PASS | |
| BHC-beta | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | 0 | 25 | PASS | |



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CA ELAP #2769

Chlorinated Pesticides

QUALITY CONTROL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | SPIKE LEVEL | SOURCE RESULT | ACCURACY | | PRECISION | | QA CODE |
|--------------------|----------|-----------------------|------|-----|------------------|-------------|---------------|---------------------|--------|-----------|---------------------|---------|
| | | | | | | | | % | LIMITS | % | LIMITS | |
| BHC-delta | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS |
| BHC-gamma | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS |
| Chlordane-alpha | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS |
| Chlordane-gamma | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS |
| cis-Nonachlor | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS |
| DCPA (Dacthal) | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS |
| Dicofol | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS |
| Dieldrin | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS |
| Endosulfan Sulfate | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS |
| Endosulfan-I | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS |
| Endosulfan-II | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS |
| Endrin | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS |
| Endrin Aldehyde | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS |
| Endrin Ketone | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS |
| Heptachlor | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS |
| Heptachlor Epoxide | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS |
| Hexachlorobenzene | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS |
| Methoxychlor | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS |
| Mirex | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS |
| Oxychlordane | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS |
| Perthane | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS |
| trans-Nonachlor | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS |
| | | Method: EPA 8270C-NCI | | | Batch ID: O-6005 | | | Prepared: 24-Aug-13 | | | Analyzed: 06-Sep-13 | |
| Toxaphene | NA | ND | 0.1 | 0.2 | ng/dry g | | | | | 0 | 25 | PASS |

Sample ID: 21888-CRM1

QAQC CRM - SRM 1944

Matrix: Sediment

Sampled:

Received:

Method: EPA 8270C

Batch ID: O-6001

Prepared: 09-Aug-13

Analyzed: 30-Aug-13

| | | | | | | | | | |
|----------|----|------|------|-----|------------|-----|-----|-----------|------|
| (PCB030) | NA | 107 | | | % Recovery | 100 | 107 | 50 - 150% | PASS |
| (PCB112) | NA | 95 | | | % Recovery | 100 | 95 | 50 - 150% | PASS |
| (PCB198) | NA | 130 | | | % Recovery | 100 | 130 | 50 - 150% | PASS |
| (TCMX) | NA | 98 | | | % Recovery | 100 | 98 | 50 - 150% | PASS |
| 2,4'-DDD | NA | 46.2 | 0.05 | 0.1 | µg/dry g | 38 | 122 | 70 - 130% | PASS |



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CA ELAP #2769

Chlorinated Pesticides

QUALITY CONTROL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | SPIKE LEVEL | SOURCE RESULT | ACCURACY | | PRECISION | | QA CODE |
|-------------------|----------|--------|------|-----|----------|-------------|---------------|----------|-----------|-----------|--------|---------|
| | | | | | | | | % | LIMITS | % | LIMITS | |
| 2,4'-DDE | NA | 21 | 0.05 | 0.1 | µg/dry g | 19 | | 111 | 70 - 130% | PASS | | |
| 4,4'-DDD | NA | 136.3 | 0.05 | 0.1 | µg/dry g | 108 | | 126 | 70 - 130% | PASS | | |
| 4,4'-DDE | NA | 111.1 | 0.05 | 0.1 | µg/dry g | 86 | | 129 | 70 - 130% | PASS | | |
| 4,4'-DDT | NA | 121 | 0.05 | 0.1 | µg/dry g | 119 | | 102 | 70 - 130% | PASS | | |
| Chlordane-alpha | NA | 21.4 | 0.05 | 0.1 | µg/dry g | 16.5 | | 130 | 70 - 130% | PASS | | |
| Chlordane-gamma | NA | 10.2 | 0.05 | 0.1 | µg/dry g | 8 | | 127 | 70 - 130% | PASS | | |
| cis-Nonachlor | NA | 4.6 | 0.05 | 0.1 | µg/dry g | 3.7 | | 124 | 70 - 130% | PASS | | |
| Hexachlorobenzene | NA | 7.7 | 0.05 | 0.1 | µg/dry g | 6 | | 128 | 70 - 130% | PASS | | |
| trans-Nonachlor | NA | 10.6 | 0.05 | 0.1 | µg/dry g | 8.2 | | 129 | 70 - 130% | PASS | | |

Sample ID: 21889-CRM1

QAQC CRM - SRM 1944

Matrix: Sediment

Sampled:

Received:

Method: EPA 8270C

Batch ID: O-6003

Prepared: 15-Aug-13

Analyzed: 30-Aug-13

| | | | | | | | | | | | | |
|-------------------|----|-------|------|-----|------------|------|--|-----|-----------|------|--|--|
| (PCB030) | NA | 80 | | | % Recovery | 100 | | 80 | 50 - 150% | PASS | | |
| (PCB112) | NA | 73 | | | % Recovery | 100 | | 73 | 50 - 150% | PASS | | |
| (PCB198) | NA | 92 | | | % Recovery | 100 | | 92 | 50 - 150% | PASS | | |
| (TCMX) | NA | 75 | | | % Recovery | 100 | | 75 | 50 - 150% | PASS | | |
| 2,4'-DDD | NA | 48.2 | 0.05 | 0.1 | µg/dry g | 38 | | 127 | 70 - 130% | PASS | | |
| 2,4'-DDE | NA | 24.1 | 0.05 | 0.1 | µg/dry g | 19 | | 127 | 70 - 130% | PASS | | |
| 4,4'-DDD | NA | 125.5 | 0.05 | 0.1 | µg/dry g | 108 | | 116 | 70 - 130% | PASS | | |
| 4,4'-DDE | NA | 107.4 | 0.05 | 0.1 | µg/dry g | 86 | | 125 | 70 - 130% | PASS | | |
| 4,4'-DDT | NA | 129.7 | 0.05 | 0.1 | µg/dry g | 119 | | 109 | 70 - 130% | PASS | | |
| Chlordane-alpha | NA | 16.6 | 0.05 | 0.1 | µg/dry g | 16.5 | | 101 | 70 - 130% | PASS | | |
| Chlordane-gamma | NA | 8.5 | 0.05 | 0.1 | µg/dry g | 8 | | 106 | 70 - 130% | PASS | | |
| cis-Nonachlor | NA | 4.3 | 0.05 | 0.1 | µg/dry g | 3.7 | | 116 | 70 - 130% | PASS | | |
| Hexachlorobenzene | NA | 6.1 | 0.05 | 0.1 | µg/dry g | 6 | | 102 | 70 - 130% | PASS | | |
| trans-Nonachlor | NA | 8.1 | 0.05 | 0.1 | µg/dry g | 8.2 | | 99 | 70 - 130% | PASS | | |



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CA ELAP #2769

Elements

QUALITY CONTROL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | SPIKE LEVEL | SOURCE RESULT | ACCURACY % | PRECISION % | QA CODE |
|---------|----------|--------|-----|----|-------|-------------|---------------|------------|-------------|---------|
| | | | | | | | | LIMITS | LIMITS | |

Sample ID: 21731-B1

QAQC Procedural Blank

Matrix: DI Water

Sampled:

Received:

Method: EPA 6020

Batch ID: E-5124

Prepared: 09-Aug-13

Analyzed: 16-Aug-13

| | | | | | | | | | | |
|------------------|----|----|--------|-------|----------|--|--|--|--|--|
| Aluminum (Al) | NA | ND | 1 | 5 | µg/dry g | | | | | |
| Antimony (Sb) | NA | ND | 0.025 | 0.05 | µg/dry g | | | | | |
| Arsenic (As) | NA | ND | 0.025 | 0.05 | µg/dry g | | | | | |
| Barium (Ba) | NA | ND | 0.025 | 0.05 | µg/dry g | | | | | |
| Beryllium (Be) | NA | ND | 0.025 | 0.05 | µg/dry g | | | | | |
| Cadmium (Cd) | NA | ND | 0.0025 | 0.005 | µg/dry g | | | | | |
| Chromium (Cr) | NA | ND | 0.0025 | 0.005 | µg/dry g | | | | | |
| Copper (Cu) | NA | ND | 0.0025 | 0.005 | µg/dry g | | | | | |
| Iron (Fe) | NA | ND | 1 | 5 | µg/dry g | | | | | |
| Lead (Pb) | NA | ND | 0.0025 | 0.005 | µg/dry g | | | | | |
| Nickel (Ni) | NA | ND | 0.01 | 0.02 | µg/dry g | | | | | |
| Selenium (Se) | NA | ND | 0.025 | 0.05 | µg/dry g | | | | | |
| Silver (Ag) | NA | ND | 0.01 | 0.02 | µg/dry g | | | | | |
| Total Phosphorus | NA | ND | 0.016 | 0.05 | µg/dry g | | | | | |
| Zinc (Zn) | NA | ND | 0.025 | 0.05 | µg/dry g | | | | | |

Method: EPA 245.7

Batch ID: E-6013

Prepared: 27-Aug-13

Analyzed: 27-Aug-13

| | | | | | | | | | | |
|--------------|----|----|---------|---------|----------|--|--|--|--|--|
| Mercury (Hg) | NA | ND | 0.00001 | 0.00002 | µg/dry g | | | | | |
|--------------|----|----|---------|---------|----------|--|--|--|--|--|

Sample ID: 21731-BS1

QAQC Procedural Blank

Matrix: DI Water

Sampled:

Received:

Method: EPA 6020

Batch ID: E-5124

Prepared: 09-Aug-13

Analyzed: 16-Aug-13

| | | | | | | | | | | |
|----------------|----|--------|--------|-------|----------|---|---|-----|-----------|------|
| Aluminum (Al) | NA | 2 | 1 | 5 | µg/dry g | 2 | 0 | 100 | 75 - 125% | PASS |
| Antimony (Sb) | NA | 2.001 | 0.025 | 0.05 | µg/dry g | 2 | 0 | 100 | 75 - 125% | PASS |
| Arsenic (As) | NA | 2.065 | 0.025 | 0.05 | µg/dry g | 2 | 0 | 103 | 75 - 125% | PASS |
| Barium (Ba) | NA | 2.009 | 0.025 | 0.05 | µg/dry g | 2 | 0 | 100 | 75 - 125% | PASS |
| Beryllium (Be) | NA | 2.138 | 0.025 | 0.05 | µg/dry g | 2 | 0 | 107 | 75 - 125% | PASS |
| Cadmium (Cd) | NA | 2.0582 | 0.0025 | 0.005 | µg/dry g | 2 | 0 | 103 | 75 - 125% | PASS |
| Chromium (Cr) | NA | 2.0011 | 0.0025 | 0.005 | µg/dry g | 2 | 0 | 100 | 75 - 125% | PASS |
| Copper (Cu) | NA | 2.0999 | 0.0025 | 0.005 | µg/dry g | 2 | 0 | 105 | 75 - 125% | PASS |
| Iron (Fe) | NA | 2.1 | 1 | 5 | µg/dry g | 2 | 0 | 105 | 75 - 125% | PASS |



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CA ELAP #2769

Elements

QUALITY CONTROL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | SPIKE LEVEL | SOURCE RESULT | ACCURACY % | PRECISION % | QA CODE |
|------------------|----------|---------|--------|-------|----------|-------------|---------------|---------------|-------------|---------|
| | | | | | | | | LIMITS | LIMITS | |
| Lead (Pb) | NA | 2.03 | 0.0025 | 0.005 | µg/dry g | 2 | 0 | 101 75 - 125% | PASS | |
| Nickel (Ni) | NA | 2.06 | 0.01 | 0.02 | µg/dry g | 2 | 0 | 103 75 - 125% | PASS | |
| Selenium (Se) | NA | 1.939 | 0.025 | 0.05 | µg/dry g | 2 | 0 | 97 75 - 125% | PASS | |
| Silver (Ag) | NA | 0.19 | 0.01 | 0.02 | µg/dry g | 0.2 | 0 | 95 75 - 125% | PASS | |
| Total Phosphorus | NA | 530.891 | 0.016 | 0.05 | µg/dry g | 500 | 0 | 106 75 - 125% | PASS | |
| Zinc (Zn) | NA | 2.109 | 0.025 | 0.05 | µg/dry g | 2 | 0 | 105 75 - 125% | PASS | |

Method: EPA 245.7

Batch ID: E-6013

Prepared: 27-Aug-13

Analyzed: 27-Aug-13

| | | | | | | | | | | |
|--------------|----|-------|---------|---------|----------|---|---|--------------|------|--|
| Mercury (Hg) | NA | 0.954 | 0.00001 | 0.00002 | µg/dry g | 1 | 0 | 95 75 - 125% | PASS | |
|--------------|----|-------|---------|---------|----------|---|---|--------------|------|--|

Sample ID: 21731-BS2

QAQC Procedural Blank

Matrix: DI Water

Sampled:

Received:

Method: EPA 6020

Batch ID: E-5124

Prepared: 09-Aug-13

Analyzed: 16-Aug-13

| | | | | | | | | | | | |
|------------------|----|---------|--------|-------|----------|-----|---|---------------|------|----|---------|
| Aluminum (Al) | NA | 2 | 1 | 5 | µg/dry g | 2 | 0 | 100 75 - 125% | PASS | 0 | PASS |
| Antimony (Sb) | NA | 1.985 | 0.025 | 0.05 | µg/dry g | 2 | 0 | 99 75 - 125% | PASS | 1 | 25 PASS |
| Arsenic (As) | NA | 2.031 | 0.025 | 0.05 | µg/dry g | 2 | 0 | 102 75 - 125% | PASS | 1 | 25 PASS |
| Barium (Ba) | NA | 1.964 | 0.025 | 0.05 | µg/dry g | 2 | 0 | 98 75 - 125% | PASS | 2 | 25 PASS |
| Beryllium (Be) | NA | 2.14 | 0.025 | 0.05 | µg/dry g | 2 | 0 | 107 75 - 125% | PASS | 0 | 25 PASS |
| Cadmium (Cd) | NA | 2.0454 | 0.0025 | 0.005 | µg/dry g | 2 | 0 | 102 75 - 125% | PASS | 1 | 25 PASS |
| Chromium (Cr) | NA | 1.9733 | 0.0025 | 0.005 | µg/dry g | 2 | 0 | 99 75 - 125% | PASS | 1 | 25 PASS |
| Copper (Cu) | NA | 2.0858 | 0.0025 | 0.005 | µg/dry g | 2 | 0 | 104 75 - 125% | PASS | 1 | 25 PASS |
| Iron (Fe) | NA | 1.7 | 1 | 5 | µg/dry g | 2 | 0 | 85 75 - 125% | PASS | 21 | PASS |
| Lead (Pb) | NA | 2.0426 | 0.0025 | 0.005 | µg/dry g | 2 | 0 | 102 75 - 125% | PASS | 0 | 25 PASS |
| Nickel (Ni) | NA | 2.04 | 0.01 | 0.02 | µg/dry g | 2 | 0 | 102 75 - 125% | PASS | 1 | 25 PASS |
| Selenium (Se) | NA | 1.94 | 0.025 | 0.05 | µg/dry g | 2 | 0 | 97 75 - 125% | PASS | 0 | 25 PASS |
| Silver (Ag) | NA | 0.19 | 0.01 | 0.02 | µg/dry g | 0.2 | 0 | 95 75 - 125% | PASS | 0 | 25 PASS |
| Total Phosphorus | NA | 526.293 | 0.016 | 0.05 | µg/dry g | 500 | 0 | 105 75 - 125% | PASS | 1 | 25 PASS |
| Zinc (Zn) | NA | 2.096 | 0.025 | 0.05 | µg/dry g | 2 | 0 | 105 75 - 125% | PASS | 0 | 25 PASS |

Method: EPA 245.7

Batch ID: E-6013

Prepared: 27-Aug-13

Analyzed: 27-Aug-13

| | | | | | | | | | | | |
|--------------|----|-------|---------|---------|----------|---|---|--------------|------|---|---------|
| Mercury (Hg) | NA | 0.928 | 0.00001 | 0.00002 | µg/dry g | 1 | 0 | 93 75 - 125% | PASS | 2 | 25 PASS |
|--------------|----|-------|---------|---------|----------|---|---|--------------|------|---|---------|

Sample ID: 21732-B1

QAQC Procedural Blank

Matrix: DI Water

Sampled:

Received:

Method: EPA 6020

Batch ID: E-5125

Prepared: 09-Aug-13

Analyzed: 16-Aug-13

| | | | | | | | | | | | |
|---------------|----|----|---|---|----------|--|--|--|--|--|--|
| Aluminum (Al) | NA | ND | 1 | 5 | µg/dry g | | | | | | |
|---------------|----|----|---|---|----------|--|--|--|--|--|--|



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Elements

QUALITY CONTROL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | SPIKE LEVEL | SOURCE RESULT | ACCURACY % | PRECISION % | QA CODE |
|------------------|----------|--------|--------|-------|----------|-------------|---------------|------------|-------------|---------|
| | | | | | | | | LIMITS | LIMITS | |
| Antimony (Sb) | NA | ND | 0.025 | 0.05 | µg/dry g | | | | | |
| Arsenic (As) | NA | ND | 0.025 | 0.05 | µg/dry g | | | | | |
| Barium (Ba) | NA | ND | 0.025 | 0.05 | µg/dry g | | | | | |
| Beryllium (Be) | NA | ND | 0.025 | 0.05 | µg/dry g | | | | | |
| Cadmium (Cd) | NA | ND | 0.0025 | 0.005 | µg/dry g | | | | | |
| Chromium (Cr) | NA | ND | 0.0025 | 0.005 | µg/dry g | | | | | |
| Copper (Cu) | NA | ND | 0.0025 | 0.005 | µg/dry g | | | | | |
| Iron (Fe) | NA | ND | 1 | 5 | µg/dry g | | | | | |
| Lead (Pb) | NA | ND | 0.0025 | 0.005 | µg/dry g | | | | | |
| Nickel (Ni) | NA | ND | 0.01 | 0.02 | µg/dry g | | | | | |
| Selenium (Se) | NA | ND | 0.025 | 0.05 | µg/dry g | | | | | |
| Silver (Ag) | NA | ND | 0.01 | 0.02 | µg/dry g | | | | | |
| Total Phosphorus | NA | ND | 0.016 | 0.05 | µg/dry g | | | | | |
| Zinc (Zn) | NA | ND | 0.025 | 0.05 | µg/dry g | | | | | |

Method: EPA 245.7

Batch ID: E-6013

Prepared: 27-Aug-13

Analyzed: 27-Aug-13

| | | | | | | | | | | |
|--------------|----|----|---------|---------|----------|--|--|--|--|--|
| Mercury (Hg) | NA | ND | 0.00001 | 0.00002 | µg/dry g | | | | | |
|--------------|----|----|---------|---------|----------|--|--|--|--|--|

Sample ID: 21732-BS1

QAQC Procedural Blank

Matrix: DI Water

Sampled:

Received:

Method: EPA 6020

Batch ID: E-5125

Prepared: 09-Aug-13

Analyzed: 16-Aug-13

| | | | | | | | | | | |
|----------------|----|--------|--------|-------|----------|-----|---|-----|-----------|------|
| Aluminum (Al) | NA | 1.9 | 1 | 5 | µg/dry g | 2 | 0 | 95 | 75 - 125% | PASS |
| Antimony (Sb) | NA | 1.983 | 0.025 | 0.05 | µg/dry g | 2 | 0 | 99 | 75 - 125% | PASS |
| Arsenic (As) | NA | 2.038 | 0.025 | 0.05 | µg/dry g | 2 | 0 | 102 | 75 - 125% | PASS |
| Barium (Ba) | NA | 2.017 | 0.025 | 0.05 | µg/dry g | 2 | 0 | 101 | 75 - 125% | PASS |
| Beryllium (Be) | NA | 1.922 | 0.025 | 0.05 | µg/dry g | 2 | 0 | 96 | 75 - 125% | PASS |
| Cadmium (Cd) | NA | 2.0785 | 0.0025 | 0.005 | µg/dry g | 2 | 0 | 104 | 75 - 125% | PASS |
| Chromium (Cr) | NA | 1.9511 | 0.0025 | 0.005 | µg/dry g | 2 | 0 | 98 | 75 - 125% | PASS |
| Copper (Cu) | NA | 2.0315 | 0.0025 | 0.005 | µg/dry g | 2 | 0 | 102 | 75 - 125% | PASS |
| Iron (Fe) | NA | 1.8 | 1 | 5 | µg/dry g | 2 | 0 | 90 | 75 - 125% | PASS |
| Lead (Pb) | NA | 2.0314 | 0.0025 | 0.005 | µg/dry g | 2 | 0 | 102 | 75 - 125% | PASS |
| Nickel (Ni) | NA | 2.03 | 0.01 | 0.02 | µg/dry g | 2 | 0 | 101 | 75 - 125% | PASS |
| Selenium (Se) | NA | 1.93 | 0.025 | 0.05 | µg/dry g | 2 | 0 | 96 | 75 - 125% | PASS |
| Silver (Ag) | NA | 0.19 | 0.01 | 0.02 | µg/dry g | 0.2 | 0 | 95 | 75 - 125% | PASS |

PHYSIS Project ID: 1307001-001

Client: AMEC

Project: POLA/POLB Harbor Toxics TMDL and Bight '13



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Elements

QUALITY CONTROL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | SPIKE LEVEL | SOURCE RESULT | ACCURACY % | PRECISION % | QA CODE |
|------------------|----------|-------------------|---------|------------------|----------|---------------------|---------------|---------------------|-------------|---------|
| | | LIMITS | | | | | | LIMITS | | |
| Total Phosphorus | NA | 479.467 | 0.016 | 0.05 | µg/dry g | 500 | 0 | 96 | 75 - 125% | PASS |
| Zinc (Zn) | NA | 2.067 | 0.025 | 0.05 | µg/dry g | 2 | 0 | 103 | 75 - 125% | PASS |
| | | Method: EPA 245.7 | | Batch ID: E-6013 | | Prepared: 27-Aug-13 | | Analyzed: 27-Aug-13 | | |
| Mercury (Hg) | NA | 0.945 | 0.00001 | 0.00002 | µg/dry g | 1 | 0 | 94 | 75 - 125% | PASS |

Sample ID: 21732-BS2

QAQC Procedural Blank

Matrix: DI Water

Sampled:

Received:

Method: EPA 6020

Batch ID: E-5125

Prepared: 09-Aug-13

Analyzed: 16-Aug-13

| | | | | | | | | | | | | | |
|------------------|----|-------------------|---------|------------------|----------|---------------------|---|---------------------|-----------|------|----|----|------|
| Aluminum (Al) | NA | 1.9 | 1 | 5 | µg/dry g | 2 | 0 | 95 | 75 - 125% | PASS | 0 | 25 | PASS |
| Antimony (Sb) | NA | 1.974 | 0.025 | 0.05 | µg/dry g | 2 | 0 | 99 | 75 - 125% | PASS | 0 | 25 | PASS |
| Arsenic (As) | NA | 2.036 | 0.025 | 0.05 | µg/dry g | 2 | 0 | 102 | 75 - 125% | PASS | 0 | 25 | PASS |
| Barium (Ba) | NA | 2.003 | 0.025 | 0.05 | µg/dry g | 2 | 0 | 100 | 75 - 125% | PASS | 1 | 25 | PASS |
| Beryllium (Be) | NA | 1.934 | 0.025 | 0.05 | µg/dry g | 2 | 0 | 97 | 75 - 125% | PASS | 1 | 25 | PASS |
| Cadmium (Cd) | NA | 2.0513 | 0.0025 | 0.005 | µg/dry g | 2 | 0 | 103 | 75 - 125% | PASS | 1 | 25 | PASS |
| Chromium (Cr) | NA | 1.9428 | 0.0025 | 0.005 | µg/dry g | 2 | 0 | 97 | 75 - 125% | PASS | 1 | 25 | PASS |
| Copper (Cu) | NA | 2.0181 | 0.0025 | 0.005 | µg/dry g | 2 | 0 | 101 | 75 - 125% | PASS | 1 | 25 | PASS |
| Iron (Fe) | NA | 2 | 1 | 5 | µg/dry g | 2 | 0 | 100 | 75 - 125% | PASS | 11 | 25 | PASS |
| Lead (Pb) | NA | 2.0455 | 0.0025 | 0.005 | µg/dry g | 2 | 0 | 102 | 75 - 125% | PASS | 0 | 25 | PASS |
| Nickel (Ni) | NA | 2.01 | 0.01 | 0.02 | µg/dry g | 2 | 0 | 100 | 75 - 125% | PASS | 2 | 25 | PASS |
| Selenium (Se) | NA | 1.941 | 0.025 | 0.05 | µg/dry g | 2 | 0 | 97 | 75 - 125% | PASS | 1 | 25 | PASS |
| Silver (Ag) | NA | 0.19 | 0.01 | 0.02 | µg/dry g | 0.2 | 0 | 95 | 75 - 125% | PASS | 0 | 25 | PASS |
| Total Phosphorus | NA | 469.626 | 0.016 | 0.05 | µg/dry g | 500 | 0 | 94 | 75 - 125% | PASS | 2 | 25 | PASS |
| Zinc (Zn) | NA | 2.06 | 0.025 | 0.05 | µg/dry g | 2 | 0 | 103 | 75 - 125% | PASS | 0 | 25 | PASS |
| | | Method: EPA 245.7 | | Batch ID: E-6013 | | Prepared: 27-Aug-13 | | Analyzed: 27-Aug-13 | | | | | |
| Mercury (Hg) | NA | 0.923 | 0.00001 | 0.00002 | µg/dry g | 1 | 0 | 92 | 75 - 125% | PASS | 2 | 25 | PASS |

Sample ID: 21733-MS1

B13-8382

Matrix: Sediment

Sampled: 10-Jul-13

11:04

Received: 13-Jul-13

Method: EPA 6020

Batch ID: E-5124

Prepared: 09-Aug-13

Analyzed: 16-Aug-13

| | | | | | | | | | | | | | |
|----------------|----|---------|-------|------|----------|--------|---------|-----|-----------|------|--|--|----|
| Aluminum (Al) | NA | 24190.8 | 1 | 5 | µg/dry g | 1009.8 | 23145.8 | 103 | 75 - 125% | PASS | | | |
| Antimony (Sb) | NA | 49.643 | 0.025 | 0.05 | µg/dry g | 50.5 | 1.098 | 96 | 75 - 125% | PASS | | | |
| Arsenic (As) | NA | 65.203 | 0.025 | 0.05 | µg/dry g | 50.5 | 12.298 | 105 | 75 - 125% | PASS | | | |
| Barium (Ba) | NA | 230.607 | 0.025 | 0.05 | µg/dry g | 50.5 | 164.749 | 130 | 75 - 125% | FAIL | | | SH |
| Beryllium (Be) | NA | 57.325 | 0.025 | 0.05 | µg/dry g | 50.5 | 0.823 | 112 | 75 - 125% | PASS | | | |



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Elements

QUALITY CONTROL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | SPIKE LEVEL | SOURCE RESULT | ACCURACY | | PRECISION | | QA CODE | |
|------------------|----------|-------------------|---------|---------|------------------|-------------|---------------|---------------------|-----------|-----------|---------------------|---------|--|
| | | | | | | | | % | LIMITS | % | LIMITS | | |
| Cadmium (Cd) | NA | 50.3934 | 0.0025 | 0.005 | µg/dry g | 50.5 | 0.4262 | 99 | 75 - 125% | PASS | | | |
| Chromium (Cr) | NA | 109.8107 | 0.0025 | 0.005 | µg/dry g | 50.5 | 54.6667 | 109 | 75 - 125% | PASS | | | |
| Copper (Cu) | NA | 125.0361 | 0.0025 | 0.005 | µg/dry g | 50.5 | 73.6368 | 102 | 75 - 125% | PASS | | | |
| Iron (Fe) | NA | 34155.7 | 1 | 5 | µg/dry g | 1009.8 | 33225.4 | 92 | 75 - 125% | PASS | | | |
| Lead (Pb) | NA | 74.3092 | 0.0025 | 0.005 | µg/dry g | 50.5 | 27.7849 | 92 | 75 - 125% | PASS | | | |
| Nickel (Ni) | NA | 87.08 | 0.01 | 0.02 | µg/dry g | 50.5 | 31.3 | 110 | 75 - 125% | PASS | | | |
| Selenium (Se) | NA | 51.26 | 0.025 | 0.05 | µg/dry g | 50.5 | 0.37 | 101 | 75 - 125% | PASS | | | |
| Silver (Ag) | NA | 4.39 | 0.01 | 0.02 | µg/dry g | 5.05 | 0.26 | 82 | 75 - 125% | PASS | | | |
| Total Phosphorus | NA | 2826.179 | 0.016 | 0.05 | µg/dry g | 50.5 | 1565.046 | 2497 | 75 - 125% | FAIL | | SH | |
| Zinc (Zn) | NA | 209.188 | 0.025 | 0.05 | µg/dry g | 50.5 | 156.626 | 104 | 75 - 125% | PASS | | | |
| | | Method: EPA 245.7 | | | Batch ID: E-6013 | | | Prepared: 27-Aug-13 | | | Analyzed: 27-Aug-13 | | |
| Mercury (Hg) | NA | 0.74152 | 0.00001 | 0.00002 | µg/dry g | 0.248 | 0.4635 | 112 | 75 - 125% | PASS | | | |

Sample ID: 21733-MS2

B13-8382

Matrix: Sediment

Sampled: 10-Jul-13

11:04

Received: 13-Jul-13

Method: EPA 6020

Batch ID: E-5124

Prepared: 09-Aug-13

Analyzed: 16-Aug-13

| | | | | | | | | | | | | | | |
|------------------|----|-------------------|---------|---------|------------------|--------|----------|---------------------|-----------|------|---------------------|----|------|----|
| Aluminum (Al) | NA | 25091.6 | 1 | 5 | µg/dry g | 1009.8 | 23145.8 | 193 | 75 - 125% | FAIL | 61 | 25 | FAIL | SH |
| Antimony (Sb) | NA | 48.777 | 0.025 | 0.05 | µg/dry g | 50.5 | 1.098 | 94 | 75 - 125% | PASS | 2 | 25 | PASS | |
| Arsenic (As) | NA | 64.514 | 0.025 | 0.05 | µg/dry g | 50.5 | 12.298 | 103 | 75 - 125% | PASS | 2 | 25 | PASS | |
| Barium (Ba) | NA | 224.223 | 0.025 | 0.05 | µg/dry g | 50.5 | 164.749 | 118 | 75 - 125% | PASS | 10 | 25 | PASS | |
| Beryllium (Be) | NA | 56.584 | 0.025 | 0.05 | µg/dry g | 50.5 | 0.823 | 110 | 75 - 125% | PASS | 2 | 25 | PASS | |
| Cadmium (Cd) | NA | 49.8513 | 0.0025 | 0.005 | µg/dry g | 50.5 | 0.4262 | 98 | 75 - 125% | PASS | 1 | 25 | PASS | |
| Chromium (Cr) | NA | 108.3717 | 0.0025 | 0.005 | µg/dry g | 50.5 | 54.6667 | 106 | 75 - 125% | PASS | 3 | 25 | PASS | |
| Copper (Cu) | NA | 124.8286 | 0.0025 | 0.005 | µg/dry g | 50.5 | 73.6368 | 101 | 75 - 125% | PASS | 1 | 25 | PASS | |
| Iron (Fe) | NA | 35568.8 | 1 | 5 | µg/dry g | 1009.8 | 33225.4 | 232 | 75 - 125% | FAIL | 86 | 25 | FAIL | SH |
| Lead (Pb) | NA | 74.3109 | 0.0025 | 0.005 | µg/dry g | 50.5 | 27.7849 | 92 | 75 - 125% | PASS | 0 | 25 | PASS | |
| Nickel (Ni) | NA | 86.64 | 0.01 | 0.02 | µg/dry g | 50.5 | 31.3 | 110 | 75 - 125% | PASS | 0 | 25 | PASS | |
| Selenium (Se) | NA | 53.84 | 0.025 | 0.05 | µg/dry g | 50.5 | 0.37 | 106 | 75 - 125% | PASS | 5 | 25 | PASS | |
| Silver (Ag) | NA | 4.4 | 0.01 | 0.02 | µg/dry g | 5.05 | 0.26 | 82 | 75 - 125% | PASS | 0 | 25 | PASS | |
| Total Phosphorus | NA | 2786.072 | 0.016 | 0.05 | µg/dry g | 50.5 | 1565.046 | 2418 | 75 - 125% | FAIL | 3 | 25 | PASS | SH |
| Zinc (Zn) | NA | 195.255 | 0.025 | 0.05 | µg/dry g | 50.5 | 156.626 | 76 | 75 - 125% | PASS | 31 | 25 | FAIL | SH |
| | | Method: EPA 245.7 | | | Batch ID: E-6013 | | | Prepared: 27-Aug-13 | | | Analyzed: 27-Aug-13 | | | |
| Mercury (Hg) | NA | 0.73904 | 0.00001 | 0.00002 | µg/dry g | 0.248 | 0.4635 | 111 | 75 - 125% | PASS | 1 | 25 | PASS | |



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Elements

QUALITY CONTROL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | SPIKE LEVEL | SOURCE RESULT | ACCURACY % | PRECISION % | QA CODE |
|---------|----------|--------|-----|----|-------|-------------|---------------|------------|-------------|---------|
| | | | | | | | | LIMITS | LIMITS | |

Sample ID: 21733-R2

B13-8382

Matrix: Sediment

Sampled: 10-Jul-13

11:04

Received: 13-Jul-13

Method: EPA 6020

Batch ID: E-5124

Prepared: 09-Aug-13

Analyzed: 16-Aug-13

| | | | | | | | | | | | |
|------------------|----|---------|--------|-------|----------|--|--|--|---|----|------|
| Aluminum (Al) | NA | 22077.4 | 1 | 5 | µg/dry g | | | | 9 | 25 | PASS |
| Antimony (Sb) | NA | 1.082 | 0.025 | 0.05 | µg/dry g | | | | 3 | 25 | PASS |
| Arsenic (As) | NA | 12.244 | 0.025 | 0.05 | µg/dry g | | | | 1 | 25 | PASS |
| Barium (Ba) | NA | 159.599 | 0.025 | 0.05 | µg/dry g | | | | 6 | 25 | PASS |
| Beryllium (Be) | NA | 0.799 | 0.025 | 0.05 | µg/dry g | | | | 6 | 25 | PASS |
| Cadmium (Cd) | NA | 0.425 | 0.0025 | 0.005 | µg/dry g | | | | 1 | 25 | PASS |
| Chromium (Cr) | NA | 52.9387 | 0.0025 | 0.005 | µg/dry g | | | | 6 | 25 | PASS |
| Copper (Cu) | NA | 73.2267 | 0.0025 | 0.005 | µg/dry g | | | | 1 | 25 | PASS |
| Iron (Fe) | NA | 32545.1 | 1 | 5 | µg/dry g | | | | 4 | 25 | PASS |
| Lead (Pb) | NA | 27.8444 | 0.0025 | 0.005 | µg/dry g | | | | 0 | 25 | PASS |
| Nickel (Ni) | NA | 30.97 | 0.01 | 0.02 | µg/dry g | | | | 2 | 25 | PASS |
| Selenium (Se) | NA | 0.379 | 0.025 | 0.05 | µg/dry g | | | | 5 | 25 | PASS |
| Silver (Ag) | NA | 0.25 | 0.01 | 0.02 | µg/dry g | | | | 4 | 25 | PASS |
| Total Phosphorus | NA | 1537.64 | 0.016 | 0.05 | µg/dry g | | | | 4 | 25 | PASS |
| Zinc (Zn) | NA | 157.254 | 0.025 | 0.05 | µg/dry g | | | | 1 | 25 | PASS |

Method: EPA 245.7

Batch ID: E-6013

Prepared: 27-Aug-13

Analyzed: 27-Aug-13

| | | | | | | | | | | | |
|--------------|----|-------|---------|---------|----------|--|--|--|---|----|------|
| Mercury (Hg) | NA | 0.465 | 0.00001 | 0.00002 | µg/dry g | | | | 1 | 25 | PASS |
|--------------|----|-------|---------|---------|----------|--|--|--|---|----|------|

Sample ID: 21743-MS1

B13-8306

Matrix: Sediment

Sampled: 11-Jul-13

13:00

Received: 13-Jul-13

Method: EPA 6020

Batch ID: E-5125

Prepared: 09-Aug-13

Analyzed: 17-Aug-13

| | | | | | | | | | | | |
|----------------|----|----------|--------|-------|----------|--------|---------|-----|-----------|------|----|
| Aluminum (Al) | NA | 19110.5 | 1 | 5 | µg/dry g | 1299.6 | 18141.8 | 75 | 75 - 125% | PASS | SH |
| Antimony (Sb) | NA | 61.55 | 0.025 | 0.05 | µg/dry g | 64.98 | 0.517 | 94 | 75 - 125% | PASS | |
| Arsenic (As) | NA | 80.776 | 0.025 | 0.05 | µg/dry g | 64.98 | 14.24 | 102 | 75 - 125% | PASS | |
| Barium (Ba) | NA | 644.754 | 0.025 | 0.05 | µg/dry g | 64.98 | 583.145 | 95 | 75 - 125% | PASS | |
| Beryllium (Be) | NA | 64.409 | 0.025 | 0.05 | µg/dry g | 64.98 | 0.611 | 98 | 75 - 125% | PASS | |
| Cadmium (Cd) | NA | 65.5473 | 0.0025 | 0.005 | µg/dry g | 64.98 | 1.1154 | 99 | 75 - 125% | PASS | |
| Chromium (Cr) | NA | 124.6848 | 0.0025 | 0.005 | µg/dry g | 64.98 | 59.5199 | 100 | 75 - 125% | PASS | |
| Copper (Cu) | NA | 141.0603 | 0.0025 | 0.005 | µg/dry g | 64.98 | 81.172 | 92 | 75 - 125% | PASS | |
| Iron (Fe) | NA | 26385.5 | 1 | 5 | µg/dry g | 1299.6 | 25799.5 | 45 | 75 - 125% | FAIL | SH |



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Elements

QUALITY CONTROL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | SPIKE LEVEL | SOURCE RESULT | ACCURACY % | PRECISION % | LIMITS | QA CODE |
|------------------|----------|----------|--------|-------|----------|-------------|---------------|------------|-------------|--------|---------|
| Lead (Pb) | NA | 81.8873 | 0.0025 | 0.005 | µg/dry g | 64.98 | 23.0505 | 91 | 75 - 125% | PASS | |
| Nickel (Ni) | NA | 92.07 | 0.01 | 0.02 | µg/dry g | 64.98 | 29.09 | 97 | 75 - 125% | PASS | |
| Selenium (Se) | NA | 67.116 | 0.025 | 0.05 | µg/dry g | 64.98 | 1.51 | 101 | 75 - 125% | PASS | |
| Silver (Ag) | NA | 5.66 | 0.01 | 0.02 | µg/dry g | 6.5 | 0.36 | 82 | 75 - 125% | PASS | |
| Total Phosphorus | NA | 3365.168 | 0.016 | 0.05 | µg/dry g | 64.98 | 1798.938 | 2410 | 75 - 125% | FAIL | SH |
| Zinc (Zn) | NA | 244.337 | 0.025 | 0.05 | µg/dry g | 64.98 | 194.593 | 77 | 75 - 125% | PASS | SH |

Method: EPA 245.7

Batch ID: E-6013

Prepared: 27-Aug-13

Analyzed: 27-Aug-13

| | | | | | | | | | | | |
|--------------|----|---------|---------|---------|----------|-------|--------|-----|-----------|------|--|
| Mercury (Hg) | NA | 0.68364 | 0.00001 | 0.00002 | µg/dry g | 0.324 | 0.3265 | 110 | 75 - 125% | PASS | |
|--------------|----|---------|---------|---------|----------|-------|--------|-----|-----------|------|--|

Sample ID: 21743-MS2

B13-8306

Matrix: Sediment

Sampled: 11-Jul-13

13:00

Received: 13-Jul-13

Method: EPA 6020

Batch ID: E-5125

Prepared: 09-Aug-13

Analyzed: 17-Aug-13

| | | | | | | | | | | | | | | |
|------------------|----|----------|--------|-------|----------|--------|----------|------|-----------|------|----|----|------|----|
| Aluminum (Al) | NA | 19577.1 | 1 | 5 | µg/dry g | 1299.6 | 18141.8 | 110 | 75 - 125% | PASS | 38 | 25 | FAIL | SH |
| Antimony (Sb) | NA | 61.503 | 0.025 | 0.05 | µg/dry g | 64.98 | 0.517 | 94 | 75 - 125% | PASS | 0 | 25 | PASS | |
| Arsenic (As) | NA | 80.06 | 0.025 | 0.05 | µg/dry g | 64.98 | 14.24 | 101 | 75 - 125% | PASS | 1 | 25 | PASS | |
| Barium (Ba) | NA | 652.874 | 0.025 | 0.05 | µg/dry g | 64.98 | 583.145 | 107 | 75 - 125% | PASS | 12 | 25 | PASS | |
| Beryllium (Be) | NA | 63.804 | 0.025 | 0.05 | µg/dry g | 64.98 | 0.611 | 97 | 75 - 125% | PASS | 1 | 25 | PASS | |
| Cadmium (Cd) | NA | 65.2706 | 0.0025 | 0.005 | µg/dry g | 64.98 | 1.1154 | 99 | 75 - 125% | PASS | 0 | 25 | PASS | |
| Chromium (Cr) | NA | 124.7838 | 0.0025 | 0.005 | µg/dry g | 64.98 | 59.5199 | 100 | 75 - 125% | PASS | 0 | 25 | PASS | |
| Copper (Cu) | NA | 142.3148 | 0.0025 | 0.005 | µg/dry g | 64.98 | 81.172 | 94 | 75 - 125% | PASS | 2 | 25 | PASS | |
| Iron (Fe) | NA | 27258.6 | 1 | 5 | µg/dry g | 1299.6 | 25799.5 | 112 | 75 - 125% | PASS | 85 | 25 | FAIL | SH |
| Lead (Pb) | NA | 82.983 | 0.0025 | 0.005 | µg/dry g | 64.98 | 23.0505 | 92 | 75 - 125% | PASS | 1 | 25 | PASS | |
| Nickel (Ni) | NA | 92.06 | 0.01 | 0.02 | µg/dry g | 64.98 | 29.09 | 97 | 75 - 125% | PASS | 0 | 25 | PASS | |
| Selenium (Se) | NA | 68.489 | 0.025 | 0.05 | µg/dry g | 64.98 | 1.51 | 103 | 75 - 125% | PASS | 2 | 25 | PASS | |
| Silver (Ag) | NA | 5.69 | 0.01 | 0.02 | µg/dry g | 6.5 | 0.36 | 82 | 75 - 125% | PASS | 0 | 25 | PASS | |
| Total Phosphorus | NA | 3446.159 | 0.016 | 0.05 | µg/dry g | 64.98 | 1798.938 | 2535 | 75 - 125% | FAIL | 5 | 25 | PASS | SH |
| Zinc (Zn) | NA | 244.87 | 0.025 | 0.05 | µg/dry g | 64.98 | 194.593 | 77 | 75 - 125% | PASS | 0 | 25 | PASS | SH |

Method: EPA 245.7

Batch ID: E-6013

Prepared: 27-Aug-13

Analyzed: 27-Aug-13

| | | | | | | | | | | | | | | |
|--------------|----|---------|---------|---------|----------|-------|--------|-----|-----------|------|---|----|------|--|
| Mercury (Hg) | NA | 0.68364 | 0.00001 | 0.00002 | µg/dry g | 0.324 | 0.3265 | 110 | 75 - 125% | PASS | 0 | 25 | PASS | |
|--------------|----|---------|---------|---------|----------|-------|--------|-----|-----------|------|---|----|------|--|

Sample ID: 21743-R2

B13-8306

Matrix: Sediment

Sampled: 11-Jul-13

13:00

Received: 13-Jul-13

Method: EPA 6020

Batch ID: E-5125

Prepared: 09-Aug-13

Analyzed: 17-Aug-13

| | | | | | | | | | | | | | | |
|---------------|----|---------|---|---|----------|--|--|--|--|--|---|----|------|--|
| Aluminum (Al) | NA | 17836.4 | 1 | 5 | µg/dry g | | | | | | 3 | 25 | PASS | |
|---------------|----|---------|---|---|----------|--|--|--|--|--|---|----|------|--|



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Elements

QUALITY CONTROL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | SPIKE LEVEL | SOURCE RESULT | ACCURACY % | PRECISION % | QA CODE |
|------------------|----------|----------|--------|-------|----------|-------------|---------------|------------|-------------|---------|
| | | LIMITS | | | | | | LIMITS | | |
| Antimony (Sb) | NA | 0.51 | 0.025 | 0.05 | µg/dry g | | | | 3 25 | PASS |
| Arsenic (As) | NA | 14.395 | 0.025 | 0.05 | µg/dry g | | | | 2 25 | PASS |
| Barium (Ba) | NA | 587.246 | 0.025 | 0.05 | µg/dry g | | | | 1 25 | PASS |
| Beryllium (Be) | NA | 0.614 | 0.025 | 0.05 | µg/dry g | | | | 1 25 | PASS |
| Cadmium (Cd) | NA | 1.087 | 0.0025 | 0.005 | µg/dry g | | | | 5 25 | PASS |
| Chromium (Cr) | NA | 59.1262 | 0.0025 | 0.005 | µg/dry g | | | | 1 25 | PASS |
| Copper (Cu) | NA | 81.9441 | 0.0025 | 0.005 | µg/dry g | | | | 2 25 | PASS |
| Iron (Fe) | NA | 26168 | 1 | 5 | µg/dry g | | | | 3 25 | PASS |
| Lead (Pb) | NA | 23.7268 | 0.0025 | 0.005 | µg/dry g | | | | 6 25 | PASS |
| Nickel (Ni) | NA | 29.26 | 0.01 | 0.02 | µg/dry g | | | | 1 25 | PASS |
| Selenium (Se) | NA | 1.508 | 0.025 | 0.05 | µg/dry g | | | | 0 25 | PASS |
| Silver (Ag) | NA | 0.36 | 0.01 | 0.02 | µg/dry g | | | | 0 25 | PASS |
| Total Phosphorus | NA | 1786.097 | 0.016 | 0.05 | µg/dry g | | | | 1 25 | PASS |
| Zinc (Zn) | NA | 194.958 | 0.025 | 0.05 | µg/dry g | | | | 0 25 | PASS |

Method: EPA 245.7

Batch ID: E-6013

Prepared: 27-Aug-13

Analyzed: 27-Aug-13

| | | | | | | | | | | |
|--------------|----|-------|---------|---------|----------|--|--|--|------|------|
| Mercury (Hg) | NA | 0.329 | 0.00001 | 0.00002 | µg/dry g | | | | 2 25 | PASS |
|--------------|----|-------|---------|---------|----------|--|--|--|------|------|

Sample ID: 21753-MS1

B13-8397

Matrix: Sediment

Sampled: 12-Jul-13

11:20

Received: 13-Jul-13

Method: EPA 6020

Batch ID: E-5126

Prepared: 09-Aug-13

Analyzed: 17-Aug-13

| | | | | | | | | | | |
|----------------|----|----------|--------|-------|----------|--------|----------|-----|-----------|------|
| Aluminum (Al) | NA | 40813.1 | 1 | 5 | µg/dry g | 1759.2 | 39309.6 | 85 | 75 - 125% | PASS |
| Antimony (Sb) | NA | 81.211 | 0.025 | 0.05 | µg/dry g | 87.96 | 1.672 | 90 | 75 - 125% | PASS |
| Arsenic (As) | NA | 104.537 | 0.025 | 0.05 | µg/dry g | 87.96 | 19.992 | 96 | 75 - 125% | PASS |
| Barium (Ba) | NA | 449.56 | 0.025 | 0.05 | µg/dry g | 87.96 | 367.371 | 93 | 75 - 125% | PASS |
| Beryllium (Be) | NA | 86.859 | 0.025 | 0.05 | µg/dry g | 87.96 | 1.12 | 97 | 75 - 125% | PASS |
| Cadmium (Cd) | NA | 88.1231 | 0.0025 | 0.005 | µg/dry g | 87.96 | 0.5226 | 100 | 75 - 125% | PASS |
| Chromium (Cr) | NA | 242.1533 | 0.0025 | 0.005 | µg/dry g | 87.96 | 158.5473 | 95 | 75 - 125% | PASS |
| Copper (Cu) | NA | 333.9046 | 0.0025 | 0.005 | µg/dry g | 87.96 | 264.1284 | 79 | 75 - 125% | PASS |
| Iron (Fe) | NA | 46363.5 | 1 | 5 | µg/dry g | 1759.2 | 44333.4 | 115 | 75 - 125% | PASS |
| Lead (Pb) | NA | 225.9229 | 0.0025 | 0.005 | µg/dry g | 87.96 | 147.3579 | 89 | 75 - 125% | PASS |
| Nickel (Ni) | NA | 124.96 | 0.01 | 0.02 | µg/dry g | 87.96 | 42.16 | 94 | 75 - 125% | PASS |
| Selenium (Se) | NA | 88.046 | 0.025 | 0.05 | µg/dry g | 87.96 | 0.823 | 99 | 75 - 125% | PASS |
| Silver (Ag) | NA | 8.09 | 0.01 | 0.02 | µg/dry g | 8.8 | 0.86 | 82 | 75 - 125% | PASS |

PHYSIS Project ID: 1307001-001

Client: AMEC

Project: POLA/POLB Harbor Toxics TMDL and Bight '13



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Elements

QUALITY CONTROL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | SPIKE LEVEL | SOURCE RESULT | ACCURACY % | PRECISION LIMITS | QA CODE |
|------------------|----------|-------------------|---------|------------------|----------|---------------------|---------------|---------------------|------------------|---------|
| Total Phosphorus | NA | 3478.073 | 0.016 | 0.05 | µg/dry g | 87.96 | 1360.911 | 2407 | 75 - 125% FAIL | SH |
| Zinc (Zn) | NA | 426.57 | 0.025 | 0.05 | µg/dry g | 87.96 | 364.365 | 71 | 75 - 125% FAIL | SH |
| | | Method: EPA 245.7 | | Batch ID: E-6013 | | Prepared: 27-Aug-13 | | Analyzed: 27-Aug-13 | | |
| Mercury (Hg) | NA | 1.3572 | 0.00001 | 0.00002 | µg/dry g | 0.435 | 0.926 | 99 | 75 - 125% PASS | |

Sample ID: 21753-MS2

B13-8397

Matrix: Sediment

Sampled: 12-Jul-13

11:20

Received: 13-Jul-13

Method: EPA 6020

Batch ID: E-5126

Prepared: 09-Aug-13

Analyzed: 17-Aug-13

| | | | | | | | | | | | | | |
|------------------|----|-------------------|---------|------------------|----------|---------------------|----------|---------------------|----------------|----|----|------|----|
| Aluminum (Al) | NA | 40121.3 | 1 | 5 | µg/dry g | 1759.2 | 39309.6 | 46 | 75 - 125% FAIL | 60 | 25 | FAIL | SH |
| Antimony (Sb) | NA | 80.541 | 0.025 | 0.05 | µg/dry g | 87.96 | 1.672 | 90 | 75 - 125% PASS | 0 | 25 | PASS | |
| Arsenic (As) | NA | 102.768 | 0.025 | 0.05 | µg/dry g | 87.96 | 19.992 | 94 | 75 - 125% PASS | 2 | 25 | PASS | |
| Barium (Ba) | NA | 450.174 | 0.025 | 0.05 | µg/dry g | 87.96 | 367.371 | 94 | 75 - 125% PASS | 1 | 25 | PASS | |
| Beryllium (Be) | NA | 85.57 | 0.025 | 0.05 | µg/dry g | 87.96 | 1.12 | 96 | 75 - 125% PASS | 1 | 25 | PASS | |
| Cadmium (Cd) | NA | 86.8467 | 0.0025 | 0.005 | µg/dry g | 87.96 | 0.5226 | 98 | 75 - 125% PASS | 2 | 25 | PASS | |
| Chromium (Cr) | NA | 242.0332 | 0.0025 | 0.005 | µg/dry g | 87.96 | 158.5473 | 95 | 75 - 125% PASS | 0 | 25 | PASS | |
| Copper (Cu) | NA | 335.3501 | 0.0025 | 0.005 | µg/dry g | 87.96 | 264.1284 | 81 | 75 - 125% PASS | 2 | 25 | PASS | |
| Iron (Fe) | NA | 45622.8 | 1 | 5 | µg/dry g | 1759.2 | 44333.4 | 73 | 75 - 125% FAIL | 45 | 25 | FAIL | SH |
| Lead (Pb) | NA | 226.5909 | 0.0025 | 0.005 | µg/dry g | 87.96 | 147.3579 | 90 | 75 - 125% PASS | 1 | 25 | PASS | |
| Nickel (Ni) | NA | 125.01 | 0.01 | 0.02 | µg/dry g | 87.96 | 42.16 | 94 | 75 - 125% PASS | 0 | 25 | PASS | |
| Selenium (Se) | NA | 90.77 | 0.025 | 0.05 | µg/dry g | 87.96 | 0.823 | 102 | 75 - 125% PASS | 3 | 25 | PASS | |
| Silver (Ag) | NA | 7.98 | 0.01 | 0.02 | µg/dry g | 8.8 | 0.86 | 81 | 75 - 125% PASS | 1 | 25 | PASS | |
| Total Phosphorus | NA | 3396.927 | 0.016 | 0.05 | µg/dry g | 87.96 | 1360.911 | 2315 | 75 - 125% FAIL | 4 | 25 | PASS | SH |
| Zinc (Zn) | NA | 424.541 | 0.025 | 0.05 | µg/dry g | 87.96 | 364.365 | 68 | 75 - 125% FAIL | 4 | 25 | PASS | SH |
| | | Method: EPA 245.7 | | Batch ID: E-6013 | | Prepared: 27-Aug-13 | | Analyzed: 27-Aug-13 | | | | | |
| Mercury (Hg) | NA | 1.3659 | 0.00001 | 0.00002 | µg/dry g | 0.435 | 0.926 | 101 | 75 - 125% PASS | 2 | 25 | PASS | |

Sample ID: 21753-R2

B13-8397

Matrix: Sediment

Sampled: 12-Jul-13

11:20

Received: 13-Jul-13

Method: EPA 6020

Batch ID: E-5126

Prepared: 09-Aug-13

Analyzed: 17-Aug-13

| | | | | | | | | | | | | | |
|----------------|----|---------|-------|------|----------|--|--|--|--|---|----|------|--|
| Aluminum (Al) | NA | 39105.7 | 1 | 5 | µg/dry g | | | | | 1 | 25 | PASS | |
| Antimony (Sb) | NA | 1.722 | 0.025 | 0.05 | µg/dry g | | | | | 6 | 25 | PASS | |
| Arsenic (As) | NA | 20.015 | 0.025 | 0.05 | µg/dry g | | | | | 0 | 25 | PASS | |
| Barium (Ba) | NA | 368.337 | 0.025 | 0.05 | µg/dry g | | | | | 1 | 25 | PASS | |
| Beryllium (Be) | NA | 1.112 | 0.025 | 0.05 | µg/dry g | | | | | 1 | 25 | PASS | |



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Elements

QUALITY CONTROL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | SPIKE LEVEL | SOURCE RESULT | ACCURACY % | PRECISION % | QA CODE | |
|------------------|----------|-------------------|---------|---------|------------------|-------------|---------------|---------------------|-------------|---------------------|--|
| | | | | | | | | LIMITS | LIMITS | | |
| Cadmium (Cd) | NA | 0.5169 | 0.0025 | 0.005 | µg/dry g | | | | 2 25 | PASS | |
| Chromium (Cr) | NA | 159.5601 | 0.0025 | 0.005 | µg/dry g | | | | 1 25 | PASS | |
| Copper (Cu) | NA | 269.1508 | 0.0025 | 0.005 | µg/dry g | | | | 4 25 | PASS | |
| Iron (Fe) | NA | 44771.3 | 1 | 5 | µg/dry g | | | | 2 25 | PASS | |
| Lead (Pb) | NA | 150.8827 | 0.0025 | 0.005 | µg/dry g | | | | 5 25 | PASS | |
| Nickel (Ni) | NA | 42.5 | 0.01 | 0.02 | µg/dry g | | | | 2 25 | PASS | |
| Selenium (Se) | NA | 0.837 | 0.025 | 0.05 | µg/dry g | | | | 4 25 | PASS | |
| Silver (Ag) | NA | 0.88 | 0.01 | 0.02 | µg/dry g | | | | 5 25 | PASS | |
| Total Phosphorus | NA | 1368.652 | 0.016 | 0.05 | µg/dry g | | | | 1 25 | PASS | |
| Zinc (Zn) | NA | 364.256 | 0.025 | 0.05 | µg/dry g | | | | 0 25 | PASS | |
| | | Method: EPA 245.7 | | | Batch ID: E-6013 | | | Prepared: 27-Aug-13 | | Analyzed: 27-Aug-13 | |
| Mercury (Hg) | NA | 0.943 | 0.00001 | 0.00002 | µg/dry g | | | | 4 25 | PASS | |

Sample ID: 21763-MS1

B13-8333

Matrix: Sediment

Sampled: 13-Jul-13

7:43

Received: 13-Jul-13

Method: EPA 6020

Batch ID: E-5127

Prepared: 09-Aug-13

Analyzed: 17-Aug-13

| | | | | | | | | | | | |
|------------------|----|-------------------|---------|---------|------------------|-------|----------|---------------------|-----------|---------------------|----|
| Aluminum (Al) | NA | 18574.3 | 1 | 5 | µg/dry g | 968.2 | 18555.4 | 2 | 75 - 125% | FAIL | SH |
| Antimony (Sb) | NA | 43.396 | 0.025 | 0.05 | µg/dry g | 48.42 | 0.434 | 89 | 75 - 125% | PASS | |
| Arsenic (As) | NA | 54.723 | 0.025 | 0.05 | µg/dry g | 48.42 | 7.603 | 97 | 75 - 125% | PASS | |
| Barium (Ba) | NA | 199.017 | 0.025 | 0.05 | µg/dry g | 48.42 | 141.387 | 119 | 75 - 125% | PASS | |
| Beryllium (Be) | NA | 45.751 | 0.025 | 0.05 | µg/dry g | 48.42 | 0.486 | 93 | 75 - 125% | PASS | |
| Cadmium (Cd) | NA | 46.5675 | 0.0025 | 0.005 | µg/dry g | 48.42 | 0.2385 | 96 | 75 - 125% | PASS | |
| Chromium (Cr) | NA | 83.6339 | 0.0025 | 0.005 | µg/dry g | 48.42 | 35.8153 | 99 | 75 - 125% | PASS | |
| Copper (Cu) | NA | 67.4029 | 0.0025 | 0.005 | µg/dry g | 48.42 | 19.5623 | 99 | 75 - 125% | PASS | |
| Iron (Fe) | NA | 24741.2 | 1 | 5 | µg/dry g | 968.2 | 23690.2 | 109 | 75 - 125% | PASS | |
| Lead (Pb) | NA | 59.851 | 0.0025 | 0.005 | µg/dry g | 48.42 | 14.5185 | 94 | 75 - 125% | PASS | |
| Nickel (Ni) | NA | 63.24 | 0.01 | 0.02 | µg/dry g | 48.42 | 18.02 | 93 | 75 - 125% | PASS | |
| Selenium (Se) | NA | 47.32 | 0.025 | 0.05 | µg/dry g | 48.42 | 0.238 | 97 | 75 - 125% | PASS | |
| Silver (Ag) | NA | 4.1 | 0.01 | 0.02 | µg/dry g | 4.84 | 0.1 | 83 | 75 - 125% | PASS | |
| Total Phosphorus | NA | 2452.202 | 0.016 | 0.05 | µg/dry g | 48.42 | 1252.294 | 2478 | 75 - 125% | FAIL | SH |
| Zinc (Zn) | NA | 112.916 | 0.025 | 0.05 | µg/dry g | 48.42 | 71.624 | 85 | 75 - 125% | PASS | |
| | | Method: EPA 245.7 | | | Batch ID: E-6013 | | | Prepared: 27-Aug-13 | | Analyzed: 27-Aug-13 | |
| Mercury (Hg) | NA | 0.34866 | 0.00001 | 0.00002 | µg/dry g | 0.234 | 0.081 | 114 | 75 - 125% | PASS | |



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Elements

QUALITY CONTROL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | SPIKE LEVEL | SOURCE RESULT | ACCURACY % | PRECISION % | QA CODE |
|---------|----------|--------|-----|----|-------|-------------|---------------|------------|-------------|---------|
|---------|----------|--------|-----|----|-------|-------------|---------------|------------|-------------|---------|

| Sample ID: 21763-MS2 | | B13-8333 | | Matrix: Sediment | | Sampled: 13-Jul-13 7:43 | | Received: 13-Jul-13 | | | | | |
|----------------------|----|------------------|---------|---------------------|----------|-------------------------|----------|---------------------|----------------|-----|----|------|----|
| Method: EPA 6020 | | Batch ID: E-5127 | | Prepared: 09-Aug-13 | | Analyzed: 17-Aug-13 | | | | | | | |
| Aluminum (Al) | NA | 18250.8 | 1 | 5 | µg/dry g | 968.2 | 18555.4 | -31 | 75 - 125% FAIL | 228 | 25 | FAIL | SH |
| Antimony (Sb) | NA | 42.768 | 0.025 | 0.05 | µg/dry g | 48.42 | 0.434 | 87 | 75 - 125% PASS | 2 | 25 | PASS | |
| Arsenic (As) | NA | 53.729 | 0.025 | 0.05 | µg/dry g | 48.42 | 7.603 | 95 | 75 - 125% PASS | 2 | 25 | PASS | |
| Barium (Ba) | NA | 196.527 | 0.025 | 0.05 | µg/dry g | 48.42 | 141.387 | 114 | 75 - 125% PASS | 4 | 25 | PASS | |
| Beryllium (Be) | NA | 44.971 | 0.025 | 0.05 | µg/dry g | 48.42 | 0.486 | 92 | 75 - 125% PASS | 1 | 25 | PASS | |
| Cadmium (Cd) | NA | 46.7325 | 0.0025 | 0.005 | µg/dry g | 48.42 | 0.2385 | 96 | 75 - 125% PASS | 0 | 25 | PASS | |
| Chromium (Cr) | NA | 82.8336 | 0.0025 | 0.005 | µg/dry g | 48.42 | 35.8153 | 97 | 75 - 125% PASS | 2 | 25 | PASS | |
| Copper (Cu) | NA | 66.4571 | 0.0025 | 0.005 | µg/dry g | 48.42 | 19.5623 | 97 | 75 - 125% PASS | 2 | 25 | PASS | |
| Iron (Fe) | NA | 24573.6 | 1 | 5 | µg/dry g | 968.2 | 23690.2 | 91 | 75 - 125% PASS | 18 | 25 | PASS | |
| Lead (Pb) | NA | 59.5174 | 0.0025 | 0.005 | µg/dry g | 48.42 | 14.5185 | 93 | 75 - 125% PASS | 1 | 25 | PASS | |
| Nickel (Ni) | NA | 62.86 | 0.01 | 0.02 | µg/dry g | 48.42 | 18.02 | 93 | 75 - 125% PASS | 0 | 25 | PASS | |
| Selenium (Se) | NA | 48.396 | 0.025 | 0.05 | µg/dry g | 48.42 | 0.238 | 99 | 75 - 125% PASS | 2 | 25 | PASS | |
| Silver (Ag) | NA | 4.03 | 0.01 | 0.02 | µg/dry g | 4.84 | 0.1 | 81 | 75 - 125% PASS | 2 | 25 | PASS | |
| Total Phosphorus | NA | 2447.275 | 0.016 | 0.05 | µg/dry g | 48.42 | 1252.294 | 2468 | 75 - 125% FAIL | 0 | 25 | PASS | SH |
| Zinc (Zn) | NA | 110.897 | 0.025 | 0.05 | µg/dry g | 48.42 | 71.624 | 81 | 75 - 125% PASS | 5 | 25 | PASS | |
| Method: EPA 245.7 | | Batch ID: E-6013 | | Prepared: 27-Aug-13 | | Analyzed: 27-Aug-13 | | | | | | | |
| Mercury (Hg) | NA | 0.34632 | 0.00001 | 0.00002 | µg/dry g | 0.234 | 0.081 | 113 | 75 - 125% PASS | 1 | 25 | PASS | |

| Sample ID: 21763-R2 | | B13-8333 | | Matrix: Sediment | | Sampled: 13-Jul-13 7:43 | | Received: 13-Jul-13 | | |
|---------------------|----|------------------|--------|---------------------|----------|-------------------------|--|---------------------|----|------|
| Method: EPA 6020 | | Batch ID: E-5127 | | Prepared: 09-Aug-13 | | Analyzed: 17-Aug-13 | | | | |
| Aluminum (Al) | NA | 19155.2 | 1 | 5 | µg/dry g | | | 6 | 25 | PASS |
| Antimony (Sb) | NA | 0.422 | 0.025 | 0.05 | µg/dry g | | | 6 | 25 | PASS |
| Arsenic (As) | NA | 7.807 | 0.025 | 0.05 | µg/dry g | | | 5 | 25 | PASS |
| Barium (Ba) | NA | 146.536 | 0.025 | 0.05 | µg/dry g | | | 7 | 25 | PASS |
| Beryllium (Be) | NA | 0.506 | 0.025 | 0.05 | µg/dry g | | | 8 | 25 | PASS |
| Cadmium (Cd) | NA | 0.2428 | 0.0025 | 0.005 | µg/dry g | | | 4 | 25 | PASS |
| Chromium (Cr) | NA | 36.7714 | 0.0025 | 0.005 | µg/dry g | | | 5 | 25 | PASS |
| Copper (Cu) | NA | 19.4144 | 0.0025 | 0.005 | µg/dry g | | | 2 | 25 | PASS |
| Iron (Fe) | NA | 23753.4 | 1 | 5 | µg/dry g | | | 1 | 25 | PASS |



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Elements

QUALITY CONTROL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | SPIKE LEVEL | SOURCE RESULT | ACCURACY % | PRECISION % | QA CODE |
|-------------------|----------|------------------|---------|---------------------|----------|---------------------|---------------|------------|-------------|---------|
| | | | | | | | | LIMITS | LIMITS | |
| Lead (Pb) | NA | 13.8998 | 0.0025 | 0.005 | µg/dry g | | | | 9 25 | PASS |
| Nickel (Ni) | NA | 18.2 | 0.01 | 0.02 | µg/dry g | | | | 2 25 | PASS |
| Selenium (Se) | NA | 0.244 | 0.025 | 0.05 | µg/dry g | | | | 5 25 | PASS |
| Silver (Ag) | NA | 0.11 | 0.01 | 0.02 | µg/dry g | | | | 10 25 | PASS |
| Total Phosphorus | NA | 1248.964 | 0.016 | 0.05 | µg/dry g | | | | 1 25 | PASS |
| Zinc (Zn) | NA | 71.394 | 0.025 | 0.05 | µg/dry g | | | | 1 25 | PASS |
| Method: EPA 245.7 | | Batch ID: E-6013 | | Prepared: 27-Aug-13 | | Analyzed: 27-Aug-13 | | | | |
| Mercury (Hg) | NA | 0.079 | 0.00001 | 0.00002 | µg/dry g | | | | 5 25 | PASS |

Sample ID: 21890-CRM1

QAQC CRM - RTC 016-050

Matrix: Sediment

Sampled:

Received:

Method: EPA 6020

Batch ID: E-5124

Prepared: 09-Aug-13

Analyzed: 16-Aug-13

| | | | | | | | | | | |
|-------------------|----|------------------|---------|---------------------|----------|---------------------|-----|-----------|------|---|
| Aluminum (Al) | NA | 22336 | 1 | 5 | µg/dry g | 8920 | 250 | 75 - 125% | FAIL | * |
| Arsenic (As) | NA | 9.065 | 0.025 | 0.05 | µg/dry g | 7.76 | 117 | 75 - 125% | PASS | |
| Beryllium (Be) | NA | 0.899 | 0.025 | 0.05 | µg/dry g | 0.49 | 183 | 75 - 125% | FAIL | * |
| Cadmium (Cd) | NA | 0.3718 | 0.0025 | 0.005 | µg/dry g | 0.47 | 79 | 75 - 125% | PASS | |
| Chromium (Cr) | NA | 36.1296 | 0.0025 | 0.005 | µg/dry g | 14.5 | 249 | 75 - 125% | FAIL | * |
| Copper (Cu) | NA | 15.1111 | 0.0025 | 0.005 | µg/dry g | 15.5 | 97 | 75 - 125% | PASS | |
| Iron (Fe) | NA | 18014.7 | 1 | 5 | µg/dry g | 16800 | 107 | 75 - 125% | PASS | |
| Lead (Pb) | NA | 14.2366 | 0.0025 | 0.005 | µg/dry g | 14.01 | 102 | 75 - 125% | PASS | |
| Nickel (Ni) | NA | 19.83 | 0.01 | 0.02 | µg/dry g | 16.7 | 119 | 75 - 125% | PASS | |
| Zinc (Zn) | NA | 76.102 | 0.025 | 0.05 | µg/dry g | 69.7 | 109 | 75 - 125% | PASS | |
| Method: EPA 245.7 | | Batch ID: E-6013 | | Prepared: 27-Aug-13 | | Analyzed: 27-Aug-13 | | | | |
| Mercury (Hg) | NA | 0.159 | 0.00001 | 0.00002 | µg/dry g | 0.158 | 101 | 75 - 125% | PASS | |

Sample ID: 21891-CRM1

QAQC CRM - RTC 016-050

Matrix: Sediment

Sampled:

Received:

Method: EPA 6020

Batch ID: E-5125

Prepared: 09-Aug-13

Analyzed: 17-Aug-13

| | | | | | | | | | | |
|----------------|----|---------|--------|-------|----------|------|-----|-----------|------|---|
| Aluminum (Al) | NA | 27454.3 | 1 | 5 | µg/dry g | 8920 | 308 | 75 - 125% | FAIL | * |
| Arsenic (As) | NA | 9.634 | 0.025 | 0.05 | µg/dry g | 7.76 | 124 | 75 - 125% | PASS | |
| Beryllium (Be) | NA | 0.915 | 0.025 | 0.05 | µg/dry g | 0.49 | 187 | 75 - 125% | FAIL | * |
| Cadmium (Cd) | NA | 0.3693 | 0.0025 | 0.005 | µg/dry g | 0.47 | 79 | 75 - 125% | PASS | |
| Chromium (Cr) | NA | 41.6115 | 0.0025 | 0.005 | µg/dry g | 14.5 | 287 | 75 - 125% | FAIL | * |
| Copper (Cu) | NA | 16.0178 | 0.0025 | 0.005 | µg/dry g | 15.5 | 103 | 75 - 125% | PASS | |



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Elements

QUALITY CONTROL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | SPIKE LEVEL | SOURCE RESULT | ACCURACY % | PRECISION % | QA CODE | |
|--------------|----------|-------------------|---------|---------|----------|------------------|---------------|---------------------|-------------|---------------------|--|
| | | | | | | | | LIMITS | LIMITS | | |
| Iron (Fe) | NA | 19396.2 | 1 | 5 | µg/dry g | 16800 | | 115 75 - 125% | PASS | | |
| Lead (Pb) | NA | 15.0691 | 0.0025 | 0.005 | µg/dry g | 14.01 | | 108 75 - 125% | PASS | | |
| Nickel (Ni) | NA | 21.09 | 0.01 | 0.02 | µg/dry g | 16.7 | | 126 75 - 125% | FAIL | R | |
| Zinc (Zn) | NA | 80.653 | 0.025 | 0.05 | µg/dry g | 69.7 | | 116 75 - 125% | PASS | | |
| | | Method: EPA 245.7 | | | | Batch ID: E-6013 | | Prepared: 27-Aug-13 | | Analyzed: 27-Aug-13 | |
| Mercury (Hg) | NA | 0.153 | 0.00001 | 0.00002 | µg/dry g | 0.158 | | 97 75 - 125% | PASS | 0 25 PASS | |

Sample ID: 21892-CRM1

QAQC CRM - ERA 540

Matrix: Sediment

Sampled:

Received:

Method: EPA 6020

Batch ID: E-5124

Prepared: 09-Aug-13

Analyzed: 16-Aug-13

| | | | | | | | | | | | |
|----------------|----|-------------------|---------|---------|----------|------------------|--|---------------------|------|---------------------|--|
| Aluminum (Al) | NA | 14590.2 | 1 | 5 | µg/dry g | 9060 | | 161 75 - 125% | FAIL | * | |
| Antimony (Sb) | NA | 189.602 | 0.025 | 0.05 | µg/dry g | 106 | | 179 75 - 125% | FAIL | * | |
| Arsenic (As) | NA | 196.263 | 0.025 | 0.05 | µg/dry g | 182 | | 108 75 - 125% | PASS | | |
| Beryllium (Be) | NA | 107.9 | 0.025 | 0.05 | µg/dry g | 98.3 | | 110 75 - 125% | PASS | | |
| Cadmium (Cd) | NA | 60.6189 | 0.0025 | 0.005 | µg/dry g | 60.4 | | 100 75 - 125% | PASS | | |
| Chromium (Cr) | NA | 142.1925 | 0.0025 | 0.005 | µg/dry g | 125 | | 114 75 - 125% | PASS | | |
| Copper (Cu) | NA | 82.0975 | 0.0025 | 0.005 | µg/dry g | 80.1 | | 102 75 - 125% | PASS | | |
| Iron (Fe) | NA | 16804.9 | 1 | 5 | µg/dry g | 12900 | | 130 75 - 125% | FAIL | * | |
| Lead (Pb) | NA | 135.4749 | 0.0025 | 0.005 | µg/dry g | 136 | | 100 75 - 125% | PASS | | |
| Nickel (Ni) | NA | 141.89 | 0.01 | 0.02 | µg/dry g | 128 | | 111 75 - 125% | PASS | | |
| Selenium (Se) | NA | 92.387 | 0.025 | 0.05 | µg/dry g | 85.9 | | 108 75 - 125% | PASS | | |
| Silver (Ag) | NA | 61.15 | 0.01 | 0.02 | µg/dry g | 61.3 | | 100 75 - 125% | PASS | | |
| Zinc (Zn) | NA | 222.013 | 0.025 | 0.05 | µg/dry g | 204 | | 109 75 - 125% | PASS | | |
| | | Method: EPA 245.7 | | | | Batch ID: E-6013 | | Prepared: 27-Aug-13 | | Analyzed: 27-Aug-13 | |
| Mercury (Hg) | NA | 9.151 | 0.00001 | 0.00002 | µg/dry g | 9.25 | | 99 75 - 125% | PASS | | |

Sample ID: 21893-CRM1

QAQC CRM - ERA 540

Matrix: Sediment

Sampled:

Received:

Method: EPA 6020

Batch ID: E-5125

Prepared: 09-Aug-13

Analyzed: 17-Aug-13

| | | | | | | | | | | |
|----------------|----|---------|--------|-------|----------|------|--|---------------|------|---|
| Aluminum (Al) | NA | 16270.2 | 1 | 5 | µg/dry g | 9060 | | 180 75 - 125% | FAIL | * |
| Antimony (Sb) | NA | 182.355 | 0.025 | 0.05 | µg/dry g | 106 | | 172 75 - 125% | FAIL | * |
| Arsenic (As) | NA | 186.729 | 0.025 | 0.05 | µg/dry g | 182 | | 103 75 - 125% | PASS | |
| Beryllium (Be) | NA | 93.648 | 0.025 | 0.05 | µg/dry g | 98.3 | | 95 75 - 125% | PASS | |
| Cadmium (Cd) | NA | 58.2277 | 0.0025 | 0.005 | µg/dry g | 60.4 | | 96 75 - 125% | PASS | |



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Elements

QUALITY CONTROL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | SPIKE LEVEL | SOURCE RESULT | ACCURACY % | PRECISION % | QA CODE |
|---------------|----------|----------|--------|-------|----------|-------------|---------------|---------------|-------------|---------|
| | | | | | | | | LIMITS | LIMITS | |
| Chromium (Cr) | NA | 132.6281 | 0.0025 | 0.005 | µg/dry g | 125 | | 106 75 - 125% | PASS | |
| Copper (Cu) | NA | 76.2468 | 0.0025 | 0.005 | µg/dry g | 80.1 | | 95 75 - 125% | PASS | |
| Iron (Fe) | NA | 16596.2 | 1 | 5 | µg/dry g | 12900 | | 129 75 - 125% | FAIL | * |
| Lead (Pb) | NA | 128.5892 | 0.0025 | 0.005 | µg/dry g | 136 | | 95 75 - 125% | PASS | |
| Nickel (Ni) | NA | 126.87 | 0.01 | 0.02 | µg/dry g | 128 | | 99 75 - 125% | PASS | |
| Selenium (Se) | NA | 88.583 | 0.025 | 0.05 | µg/dry g | 85.9 | | 103 75 - 125% | PASS | |
| Silver (Ag) | NA | 58.44 | 0.01 | 0.02 | µg/dry g | 61.3 | | 95 75 - 125% | PASS | |
| Zinc (Zn) | NA | 209.077 | 0.025 | 0.05 | µg/dry g | 204 | | 102 75 - 125% | PASS | |

Method: EPA 245.7

Batch ID: E-6013

Prepared: 27-Aug-13

Analyzed: 27-Aug-13

| | | | | | | | | | | |
|--------------|----|------|---------|---------|----------|------|--|--------------|------|--|
| Mercury (Hg) | NA | 8.47 | 0.00001 | 0.00002 | µg/dry g | 9.25 | | 92 75 - 125% | PASS | |
|--------------|----|------|---------|---------|----------|------|--|--------------|------|--|

Sample ID: 22055-B1

QAQC Procedural Blank

Matrix: DI Water

Sampled:

Received:

Method: EPA 6020

Batch ID: E-5126

Prepared: 09-Aug-13

Analyzed: 16-Aug-13

| | | | | | | | | | | |
|------------------|----|----|--------|-------|----------|--|--|--|--|--|
| Aluminum (Al) | NA | ND | 1 | 5 | µg/dry g | | | | | |
| Antimony (Sb) | NA | ND | 0.025 | 0.05 | µg/dry g | | | | | |
| Arsenic (As) | NA | ND | 0.025 | 0.05 | µg/dry g | | | | | |
| Barium (Ba) | NA | ND | 0.025 | 0.05 | µg/dry g | | | | | |
| Beryllium (Be) | NA | ND | 0.025 | 0.05 | µg/dry g | | | | | |
| Cadmium (Cd) | NA | ND | 0.0025 | 0.005 | µg/dry g | | | | | |
| Chromium (Cr) | NA | ND | 0.0025 | 0.005 | µg/dry g | | | | | |
| Copper (Cu) | NA | ND | 0.0025 | 0.005 | µg/dry g | | | | | |
| Iron (Fe) | NA | ND | 1 | 5 | µg/dry g | | | | | |
| Lead (Pb) | NA | ND | 0.0025 | 0.005 | µg/dry g | | | | | |
| Nickel (Ni) | NA | ND | 0.01 | 0.02 | µg/dry g | | | | | |
| Selenium (Se) | NA | ND | 0.025 | 0.05 | µg/dry g | | | | | |
| Silver (Ag) | NA | ND | 0.01 | 0.02 | µg/dry g | | | | | |
| Total Phosphorus | NA | ND | 0.016 | 0.05 | µg/dry g | | | | | |
| Zinc (Zn) | NA | ND | 0.025 | 0.05 | µg/dry g | | | | | |

Method: EPA 245.7

Batch ID: E-6013

Prepared: 27-Aug-13

Analyzed: 27-Aug-13

| | | | | | | | | | | |
|--------------|----|----|---------|---------|----------|--|--|--|--|--|
| Mercury (Hg) | NA | ND | 0.00001 | 0.00002 | µg/dry g | | | | | |
|--------------|----|----|---------|---------|----------|--|--|--|--|--|

Sample ID: 22055-BS1

QAQC Procedural Blank

Matrix: DI Water

Sampled:

Received:



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Elements

QUALITY CONTROL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | SPIKE LEVEL | SOURCE RESULT | ACCURACY % | PRECISION % | QA CODE | |
|------------------|----------|------------------|--------|-------|------------------|-------------|---------------|---------------------|-------------|---------------------|--|
| | | LIMITS | | | | LIMITS | | | | | |
| | | Method: EPA 6020 | | | Batch ID: E-5126 | | | Prepared: 09-Aug-13 | | Analyzed: 16-Aug-13 | |
| Aluminum (Al) | NA | 1.9 | 1 | 5 | µg/dry g | 2 | 0 | 95 | 75 - 125% | PASS | |
| Antimony (Sb) | NA | 1.88 | 0.025 | 0.05 | µg/dry g | 2 | 0 | 94 | 75 - 125% | PASS | |
| Arsenic (As) | NA | 1.945 | 0.025 | 0.05 | µg/dry g | 2 | 0 | 97 | 75 - 125% | PASS | |
| Barium (Ba) | NA | 1.967 | 0.025 | 0.05 | µg/dry g | 2 | 0 | 98 | 75 - 125% | PASS | |
| Beryllium (Be) | NA | 1.816 | 0.025 | 0.05 | µg/dry g | 2 | 0 | 91 | 75 - 125% | PASS | |
| Cadmium (Cd) | NA | 2.0869 | 0.0025 | 0.005 | µg/dry g | 2 | 0 | 104 | 75 - 125% | PASS | |
| Chromium (Cr) | NA | 1.8702 | 0.0025 | 0.005 | µg/dry g | 2 | 0 | 94 | 75 - 125% | PASS | |
| Copper (Cu) | NA | 1.9263 | 0.0025 | 0.005 | µg/dry g | 2 | 0 | 96 | 75 - 125% | PASS | |
| Iron (Fe) | NA | 2 | 1 | 5 | µg/dry g | 2 | 0 | 100 | 75 - 125% | PASS | |
| Lead (Pb) | NA | 2.0616 | 0.0025 | 0.005 | µg/dry g | 2 | 0 | 103 | 75 - 125% | PASS | |
| Nickel (Ni) | NA | 1.96 | 0.01 | 0.02 | µg/dry g | 2 | 0 | 98 | 75 - 125% | PASS | |
| Selenium (Se) | NA | 1.945 | 0.025 | 0.05 | µg/dry g | 2 | 0 | 97 | 75 - 125% | PASS | |
| Silver (Ag) | NA | 0.19 | 0.01 | 0.02 | µg/dry g | 0.2 | 0 | 95 | 75 - 125% | PASS | |
| Total Phosphorus | NA | 461.876 | 0.016 | 0.05 | µg/dry g | 500 | 0 | 92 | 75 - 125% | PASS | |
| Zinc (Zn) | NA | 1.981 | 0.025 | 0.05 | µg/dry g | 2 | 0 | 99 | 75 - 125% | PASS | |

| | | | | | | | | | | | |
|--------------|----|-------------------|---------|---------|------------------|---|---|---------------------|-----------|---------------------|--|
| | | Method: EPA 245.7 | | | Batch ID: E-6013 | | | Prepared: 27-Aug-13 | | Analyzed: 27-Aug-13 | |
| Mercury (Hg) | NA | 0.958 | 0.00001 | 0.00002 | µg/dry g | 1 | 0 | 96 | 75 - 125% | PASS | |

| Sample ID: 22055-BS2 | QAQC Procedural Blank | Matrix: DI Water | Sampled: | Received: | | | | | | | | | | |
|----------------------|-----------------------|------------------|----------|---------------------|----------|---------------------|---|-----|-----------|------|----|----|------|---|
| Method: EPA 6020 | | Batch ID: E-5126 | | Prepared: 09-Aug-13 | | Analyzed: 16-Aug-13 | | | | | | | | |
| Aluminum (Al) | NA | 1.9 | 1 | 5 | µg/dry g | 2 | 0 | 95 | 75 - 125% | PASS | 0 | 25 | PASS | |
| Antimony (Sb) | NA | 1.87 | 0.025 | 0.05 | µg/dry g | 2 | 0 | 94 | 75 - 125% | PASS | 0 | 25 | PASS | |
| Arsenic (As) | NA | 1.914 | 0.025 | 0.05 | µg/dry g | 2 | 0 | 96 | 75 - 125% | PASS | 1 | 25 | PASS | |
| Barium (Ba) | NA | 1.958 | 0.025 | 0.05 | µg/dry g | 2 | 0 | 98 | 75 - 125% | PASS | 0 | 25 | PASS | |
| Beryllium (Be) | NA | 1.83 | 0.025 | 0.05 | µg/dry g | 2 | 0 | 92 | 75 - 125% | PASS | 1 | 25 | PASS | |
| Cadmium (Cd) | NA | 2.1065 | 0.0025 | 0.005 | µg/dry g | 2 | 0 | 105 | 75 - 125% | PASS | 1 | 25 | PASS | |
| Chromium (Cr) | NA | 1.9051 | 0.0025 | 0.005 | µg/dry g | 2 | 0 | 95 | 75 - 125% | PASS | 1 | 25 | PASS | |
| Copper (Cu) | NA | 1.9198 | 0.0025 | 0.005 | µg/dry g | 2 | 0 | 96 | 75 - 125% | PASS | 0 | 25 | PASS | |
| Iron (Fe) | NA | 1.5 | 1 | 5 | µg/dry g | 2 | 0 | 75 | 75 - 125% | PASS | 29 | 25 | FAIL | R |
| Lead (Pb) | NA | 2.0697 | 0.0025 | 0.005 | µg/dry g | 2 | 0 | 103 | 75 - 125% | PASS | 0 | 25 | PASS | |
| Nickel (Ni) | NA | 1.96 | 0.01 | 0.02 | µg/dry g | 2 | 0 | 98 | 75 - 125% | PASS | 0 | 25 | PASS | |



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Elements

QUALITY CONTROL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | SPIKE LEVEL | SOURCE RESULT | ACCURACY | | | PRECISION | | | QA CODE |
|------------------|----------|-------------------|---------|---------|------------------|-------------|---------------|---------------------|-----------|------|---------------------|--------|------|---------|
| | | | | | | | | % | LIMITS | PASS | % | LIMITS | PASS | |
| Selenium (Se) | NA | 1.966 | 0.025 | 0.05 | µg/dry g | 2 | 0 | 98 | 75 - 125% | PASS | 1 | 25 | PASS | |
| Silver (Ag) | NA | 0.19 | 0.01 | 0.02 | µg/dry g | 0.2 | 0 | 95 | 75 - 125% | PASS | 0 | 25 | PASS | |
| Total Phosphorus | NA | 450.674 | 0.016 | 0.05 | µg/dry g | 500 | 0 | 90 | 75 - 125% | PASS | 2 | 25 | PASS | |
| Zinc (Zn) | NA | 1.949 | 0.025 | 0.05 | µg/dry g | 2 | 0 | 97 | 75 - 125% | PASS | 2 | 25 | PASS | |
| | | Method: EPA 245.7 | | | Batch ID: E-6013 | | | Prepared: 27-Aug-13 | | | Analyzed: 27-Aug-13 | | | |
| Mercury (Hg) | NA | 0.929 | 0.00001 | 0.00002 | µg/dry g | 1 | 0 | 93 | 75 - 125% | PASS | 3 | 25 | PASS | |

Sample ID: 22056-B1

QAQC Procedural Blank

Matrix: DI Water

Sampled:

Received:

Method: EPA 6020

Batch ID: E-5127

Prepared: 09-Aug-13

Analyzed: 16-Aug-13

| | | | | | | | | | | | | | | |
|------------------|----|----|--------|-------|----------|--|--|--|--|--|--|--|--|--|
| Aluminum (Al) | NA | ND | 1 | 5 | µg/dry g | | | | | | | | | |
| Antimony (Sb) | NA | ND | 0.025 | 0.05 | µg/dry g | | | | | | | | | |
| Arsenic (As) | NA | ND | 0.025 | 0.05 | µg/dry g | | | | | | | | | |
| Barium (Ba) | NA | ND | 0.025 | 0.05 | µg/dry g | | | | | | | | | |
| Beryllium (Be) | NA | ND | 0.025 | 0.05 | µg/dry g | | | | | | | | | |
| Cadmium (Cd) | NA | ND | 0.0025 | 0.005 | µg/dry g | | | | | | | | | |
| Chromium (Cr) | NA | ND | 0.0025 | 0.005 | µg/dry g | | | | | | | | | |
| Copper (Cu) | NA | ND | 0.0025 | 0.005 | µg/dry g | | | | | | | | | |
| Iron (Fe) | NA | ND | 1 | 5 | µg/dry g | | | | | | | | | |
| Lead (Pb) | NA | ND | 0.0025 | 0.005 | µg/dry g | | | | | | | | | |
| Nickel (Ni) | NA | ND | 0.01 | 0.02 | µg/dry g | | | | | | | | | |
| Selenium (Se) | NA | ND | 0.025 | 0.05 | µg/dry g | | | | | | | | | |
| Silver (Ag) | NA | ND | 0.01 | 0.02 | µg/dry g | | | | | | | | | |
| Total Phosphorus | NA | ND | 0.016 | 0.05 | µg/dry g | | | | | | | | | |
| Zinc (Zn) | NA | ND | 0.025 | 0.05 | µg/dry g | | | | | | | | | |

Method: EPA 245.7

Batch ID: E-6013

Prepared: 27-Aug-13

Analyzed: 27-Aug-13

| | | | | | | | | | | | | | | |
|---------------|----|------------------|---------|---------|------------------|---|---|---------------------|-----------|------|---------------------|--|--|--|
| Mercury (Hg) | NA | ND | 0.00001 | 0.00002 | µg/dry g | | | | | | | | | |
| | | Method: EPA 6020 | | | Batch ID: E-5127 | | | Prepared: 09-Aug-13 | | | Analyzed: 16-Aug-13 | | | |
| Aluminum (Al) | NA | 1.9 | 1 | 5 | µg/dry g | 2 | 0 | 95 | 75 - 125% | PASS | | | | |
| Antimony (Sb) | NA | 1.903 | 0.025 | 0.05 | µg/dry g | 2 | 0 | 95 | 75 - 125% | PASS | | | | |
| Arsenic (As) | NA | 1.939 | 0.025 | 0.05 | µg/dry g | 2 | 0 | 97 | 75 - 125% | PASS | | | | |



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Elements

QUALITY CONTROL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | SPIKE LEVEL | SOURCE RESULT | ACCURACY | | PRECISION | | QA CODE |
|------------------|----------|---------|--------|-------|----------|-------------|---------------|----------|-----------|-----------|--------|---------|
| | | | | | | | | % | LIMITS | % | LIMITS | |
| Barium (Ba) | NA | 2.038 | 0.025 | 0.05 | µg/dry g | 2 | 0 | 102 | 75 - 125% | PASS | | |
| Beryllium (Be) | NA | 1.811 | 0.025 | 0.05 | µg/dry g | 2 | 0 | 91 | 75 - 125% | PASS | | |
| Cadmium (Cd) | NA | 2.0888 | 0.0025 | 0.005 | µg/dry g | 2 | 0 | 104 | 75 - 125% | PASS | | |
| Chromium (Cr) | NA | 1.864 | 0.0025 | 0.005 | µg/dry g | 2 | 0 | 93 | 75 - 125% | PASS | | |
| Copper (Cu) | NA | 1.8837 | 0.0025 | 0.005 | µg/dry g | 2 | 0 | 94 | 75 - 125% | PASS | | |
| Iron (Fe) | NA | 2.4 | 1 | 5 | µg/dry g | 2 | 0 | 120 | 75 - 125% | PASS | | |
| Lead (Pb) | NA | 2.0465 | 0.0025 | 0.005 | µg/dry g | 2 | 0 | 102 | 75 - 125% | PASS | | |
| Nickel (Ni) | NA | 1.91 | 0.01 | 0.02 | µg/dry g | 2 | 0 | 95 | 75 - 125% | PASS | | |
| Selenium (Se) | NA | 1.849 | 0.025 | 0.05 | µg/dry g | 2 | 0 | 92 | 75 - 125% | PASS | | |
| Silver (Ag) | NA | 0.19 | 0.01 | 0.02 | µg/dry g | 0.2 | 0 | 95 | 75 - 125% | PASS | | |
| Total Phosphorus | NA | 456.209 | 0.016 | 0.05 | µg/dry g | 500 | 0 | 91 | 75 - 125% | PASS | | |
| Zinc (Zn) | NA | 1.9 | 0.025 | 0.05 | µg/dry g | 2 | 0 | 95 | 75 - 125% | PASS | | |

Method: EPA 245.7

Batch ID: E-6013

Prepared: 27-Aug-13

Analyzed: 27-Aug-13

| | | | | | | | | | | | | |
|--------------|----|-------|---------|---------|----------|---|---|----|-----------|------|--|--|
| Mercury (Hg) | NA | 0.956 | 0.00001 | 0.00002 | µg/dry g | 1 | 0 | 96 | 75 - 125% | PASS | | |
|--------------|----|-------|---------|---------|----------|---|---|----|-----------|------|--|--|

Sample ID: 22056-BS2

QAQC Procedural Blank

Matrix: DI Water

Sampled:

Received:

Method: EPA 6020

Batch ID: E-5127

Prepared: 09-Aug-13

Analyzed: 16-Aug-13

| | | | | | | | | | | | | | |
|------------------|----|---------|--------|-------|----------|-----|---|-----|-----------|------|---|----|------|
| Aluminum (Al) | NA | 1.8 | 1 | 5 | µg/dry g | 2 | 0 | 90 | 75 - 125% | PASS | 5 | 25 | PASS |
| Antimony (Sb) | NA | 1.889 | 0.025 | 0.05 | µg/dry g | 2 | 0 | 94 | 75 - 125% | PASS | 1 | 25 | PASS |
| Arsenic (As) | NA | 1.918 | 0.025 | 0.05 | µg/dry g | 2 | 0 | 96 | 75 - 125% | PASS | 1 | 25 | PASS |
| Barium (Ba) | NA | 2.024 | 0.025 | 0.05 | µg/dry g | 2 | 0 | 101 | 75 - 125% | PASS | 1 | 25 | PASS |
| Beryllium (Be) | NA | 1.814 | 0.025 | 0.05 | µg/dry g | 2 | 0 | 91 | 75 - 125% | PASS | 0 | 25 | PASS |
| Cadmium (Cd) | NA | 2.1097 | 0.0025 | 0.005 | µg/dry g | 2 | 0 | 105 | 75 - 125% | PASS | 1 | 25 | PASS |
| Chromium (Cr) | NA | 1.8606 | 0.0025 | 0.005 | µg/dry g | 2 | 0 | 93 | 75 - 125% | PASS | 0 | 25 | PASS |
| Copper (Cu) | NA | 1.8648 | 0.0025 | 0.005 | µg/dry g | 2 | 0 | 93 | 75 - 125% | PASS | 1 | 25 | PASS |
| Iron (Fe) | NA | 2.4 | 1 | 5 | µg/dry g | 2 | 0 | 120 | 75 - 125% | PASS | 0 | 25 | PASS |
| Lead (Pb) | NA | 2.0588 | 0.0025 | 0.005 | µg/dry g | 2 | 0 | 103 | 75 - 125% | PASS | 1 | 25 | PASS |
| Nickel (Ni) | NA | 1.89 | 0.01 | 0.02 | µg/dry g | 2 | 0 | 94 | 75 - 125% | PASS | 2 | 25 | PASS |
| Selenium (Se) | NA | 1.873 | 0.025 | 0.05 | µg/dry g | 2 | 0 | 94 | 75 - 125% | PASS | 2 | 25 | PASS |
| Silver (Ag) | NA | 0.19 | 0.01 | 0.02 | µg/dry g | 0.2 | 0 | 95 | 75 - 125% | PASS | 0 | 25 | PASS |
| Total Phosphorus | NA | 445.752 | 0.016 | 0.05 | µg/dry g | 500 | 0 | 89 | 75 - 125% | PASS | 2 | 25 | PASS |
| Zinc (Zn) | NA | 1.916 | 0.025 | 0.05 | µg/dry g | 2 | 0 | 96 | 75 - 125% | PASS | 1 | 25 | PASS |



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CA ELAP #2769

Elements

QUALITY CONTROL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | SPIKE LEVEL | SOURCE RESULT | ACCURACY % | PRECISION % | QA CODE |
|---------|----------|--------|-----|----|-------|-------------|---------------|------------|-------------|---------|
| | | LIMITS | | | | | | LIMITS | | |

| | | | | | | | | | | | | | |
|--------------|----|-------------------|---------|---------|------------------|---|---|---------------------|-----------|------|---------------------|----|------|
| | | Method: EPA 245.7 | | | Batch ID: E-6013 | | | Prepared: 27-Aug-13 | | | Analyzed: 27-Aug-13 | | |
| Mercury (Hg) | NA | 0.928 | 0.00001 | 0.00002 | µg/dry g | 1 | 0 | 93 | 75 - 125% | PASS | 3 | 25 | PASS |

| | | | | | | | | | | | | |
|------------------------------|----|-------------------------------|--------|-------|-------------------------|-------|-----|---------------------|------|--|---------------------|---|
| Sample ID: 22057-CRM1 | | QAQC CRM - RTC 016-050 | | | Matrix: Sediment | | | Sampled: | | | Received: | |
| | | Method: EPA 6020 | | | Batch ID: E-5126 | | | Prepared: 09-Aug-13 | | | Analyzed: 17-Aug-13 | |
| Aluminum (Al) | NA | 28227.5 | 1 | 5 | µg/dry g | 8920 | 316 | 75 - 125% | FAIL | | | * |
| Arsenic (As) | NA | 8.67 | 0.025 | 0.05 | µg/dry g | 7.76 | 112 | 75 - 125% | PASS | | | |
| Beryllium (Be) | NA | 0.85 | 0.025 | 0.05 | µg/dry g | 0.49 | 173 | 75 - 125% | FAIL | | | * |
| Cadmium (Cd) | NA | 0.2957 | 0.0025 | 0.005 | µg/dry g | 0.47 | 63 | 75 - 125% | FAIL | | | R |
| Chromium (Cr) | NA | 40.689 | 0.0025 | 0.005 | µg/dry g | 14.5 | 281 | 75 - 125% | FAIL | | | * |
| Copper (Cu) | NA | 14.5833 | 0.0025 | 0.005 | µg/dry g | 15.5 | 94 | 75 - 125% | PASS | | | |
| Iron (Fe) | NA | 18878.3 | 1 | 5 | µg/dry g | 16800 | 112 | 75 - 125% | PASS | | | |
| Lead (Pb) | NA | 14.5944 | 0.0025 | 0.005 | µg/dry g | 14.01 | 104 | 75 - 125% | PASS | | | |
| Nickel (Ni) | NA | 19.59 | 0.01 | 0.02 | µg/dry g | 16.7 | 117 | 75 - 125% | PASS | | | |
| Zinc (Zn) | NA | 72.949 | 0.025 | 0.05 | µg/dry g | 69.7 | 105 | 75 - 125% | PASS | | | |

| | | | | | | | | | | | | |
|--------------|----|-------------------|---------|---------|------------------|-------|----|---------------------|------|--|---------------------|--|
| | | Method: EPA 245.7 | | | Batch ID: E-6013 | | | Prepared: 27-Aug-13 | | | Analyzed: 27-Aug-13 | |
| Mercury (Hg) | NA | 0.15 | 0.00001 | 0.00002 | µg/dry g | 0.158 | 95 | 75 - 125% | PASS | | | |

| | | | | | | | | | | | | |
|------------------------------|----|-------------------------------|--------|-------|-------------------------|-------|-----|---------------------|------|--|---------------------|---|
| Sample ID: 22058-CRM1 | | QAQC CRM - RTC 016-050 | | | Matrix: Sediment | | | Sampled: | | | Received: | |
| | | Method: EPA 6020 | | | Batch ID: E-5127 | | | Prepared: 09-Aug-13 | | | Analyzed: 17-Aug-13 | |
| Aluminum (Al) | NA | 27447.3 | 1 | 5 | µg/dry g | 8920 | 308 | 75 - 125% | FAIL | | | * |
| Arsenic (As) | NA | 8.781 | 0.025 | 0.05 | µg/dry g | 7.76 | 113 | 75 - 125% | PASS | | | |
| Beryllium (Be) | NA | 0.833 | 0.025 | 0.05 | µg/dry g | 0.49 | 170 | 75 - 125% | FAIL | | | * |
| Cadmium (Cd) | NA | 0.3795 | 0.0025 | 0.005 | µg/dry g | 0.47 | 81 | 75 - 125% | PASS | | | |
| Chromium (Cr) | NA | 38.943 | 0.0025 | 0.005 | µg/dry g | 14.5 | 269 | 75 - 125% | FAIL | | | * |
| Copper (Cu) | NA | 14.6661 | 0.0025 | 0.005 | µg/dry g | 15.5 | 95 | 75 - 125% | PASS | | | |
| Iron (Fe) | NA | 19211.5 | 1 | 5 | µg/dry g | 16800 | 114 | 75 - 125% | PASS | | | |
| Lead (Pb) | NA | 14.4805 | 0.0025 | 0.005 | µg/dry g | 14.01 | 103 | 75 - 125% | PASS | | | |
| Nickel (Ni) | NA | 19.18 | 0.01 | 0.02 | µg/dry g | 16.7 | 115 | 75 - 125% | PASS | | | |
| Zinc (Zn) | NA | 73.128 | 0.025 | 0.05 | µg/dry g | 69.7 | 105 | 75 - 125% | PASS | | | |

| | | | | | | | | | | | | |
|--------------|----|-------------------|---------|---------|------------------|-------|----|---------------------|------|---|---------------------|------|
| | | Method: EPA 245.7 | | | Batch ID: E-6013 | | | Prepared: 27-Aug-13 | | | Analyzed: 27-Aug-13 | |
| Mercury (Hg) | NA | 0.154 | 0.00001 | 0.00002 | µg/dry g | 0.158 | 97 | 75 - 125% | PASS | 0 | 25 | PASS |



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Elements

QUALITY CONTROL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | SPIKE LEVEL | SOURCE RESULT | ACCURACY % | PRECISION % | QA CODE |
|---------|----------|--------|-----|----|-------|-------------|---------------|------------|-------------|---------|
| | | | | | | | | LIMITS | LIMITS | |

Sample ID: 22059-CRM1

QAQC CRM - ERA 540

Matrix: Sediment

Sampled:

Received:

Method: EPA 6020

Batch ID: E-5126

Prepared: 09-Aug-13

Analyzed: 17-Aug-13

| | | | | | | | | | | |
|----------------|----|----------|--------|-------|----------|-------|-----|-----------|------|---|
| Aluminum (Al) | NA | 15341.3 | 1 | 5 | µg/dry g | 9060 | 169 | 75 - 125% | FAIL | * |
| Antimony (Sb) | NA | 179.42 | 0.025 | 0.05 | µg/dry g | 106 | 169 | 75 - 125% | FAIL | * |
| Arsenic (As) | NA | 180.92 | 0.025 | 0.05 | µg/dry g | 182 | 99 | 75 - 125% | PASS | |
| Beryllium (Be) | NA | 88.698 | 0.025 | 0.05 | µg/dry g | 98.3 | 90 | 75 - 125% | PASS | |
| Cadmium (Cd) | NA | 58.9202 | 0.0025 | 0.005 | µg/dry g | 60.4 | 98 | 75 - 125% | PASS | |
| Chromium (Cr) | NA | 129.8947 | 0.0025 | 0.005 | µg/dry g | 125 | 104 | 75 - 125% | PASS | |
| Copper (Cu) | NA | 75.4913 | 0.0025 | 0.005 | µg/dry g | 80.1 | 94 | 75 - 125% | PASS | |
| Iron (Fe) | NA | 16163 | 1 | 5 | µg/dry g | 12900 | 125 | 75 - 125% | PASS | |
| Lead (Pb) | NA | 131.9418 | 0.0025 | 0.005 | µg/dry g | 136 | 97 | 75 - 125% | PASS | |
| Nickel (Ni) | NA | 125.4 | 0.01 | 0.02 | µg/dry g | 128 | 98 | 75 - 125% | PASS | |
| Selenium (Se) | NA | 90.616 | 0.025 | 0.05 | µg/dry g | 85.9 | 105 | 75 - 125% | PASS | |
| Silver (Ag) | NA | 59.93 | 0.01 | 0.02 | µg/dry g | 61.3 | 98 | 75 - 125% | PASS | |
| Zinc (Zn) | NA | 202.286 | 0.025 | 0.05 | µg/dry g | 204 | 99 | 75 - 125% | PASS | |

Method: EPA 245.7

Batch ID: E-6013

Prepared: 27-Aug-13

Analyzed: 27-Aug-13

| | | | | | | | | | | |
|--------------|----|------|---------|---------|----------|------|----|-----------|------|--|
| Mercury (Hg) | NA | 8.58 | 0.00001 | 0.00002 | µg/dry g | 9.25 | 93 | 75 - 125% | PASS | |
|--------------|----|------|---------|---------|----------|------|----|-----------|------|--|

Sample ID: 22060-CRM1

QAQC CRM - ERA 540

Matrix: Sediment

Sampled:

Received:

Method: EPA 6020

Batch ID: E-5127

Prepared: 09-Aug-13

Analyzed: 17-Aug-13

| | | | | | | | | | | |
|----------------|----|----------|--------|-------|----------|-------|-----|-----------|------|---|
| Aluminum (Al) | NA | 15335.3 | 1 | 5 | µg/dry g | 9060 | 169 | 75 - 125% | FAIL | * |
| Antimony (Sb) | NA | 181.809 | 0.025 | 0.05 | µg/dry g | 106 | 172 | 75 - 125% | FAIL | * |
| Arsenic (As) | NA | 178.051 | 0.025 | 0.05 | µg/dry g | 182 | 98 | 75 - 125% | PASS | |
| Beryllium (Be) | NA | 89.227 | 0.025 | 0.05 | µg/dry g | 98.3 | 91 | 75 - 125% | PASS | |
| Cadmium (Cd) | NA | 59.0119 | 0.0025 | 0.005 | µg/dry g | 60.4 | 98 | 75 - 125% | PASS | |
| Chromium (Cr) | NA | 128.6268 | 0.0025 | 0.005 | µg/dry g | 125 | 103 | 75 - 125% | PASS | |
| Copper (Cu) | NA | 73.4806 | 0.0025 | 0.005 | µg/dry g | 80.1 | 92 | 75 - 125% | PASS | |
| Iron (Fe) | NA | 16534 | 1 | 5 | µg/dry g | 12900 | 128 | 75 - 125% | FAIL | * |
| Lead (Pb) | NA | 128.5851 | 0.0025 | 0.005 | µg/dry g | 136 | 95 | 75 - 125% | PASS | |
| Nickel (Ni) | NA | 121.34 | 0.01 | 0.02 | µg/dry g | 128 | 95 | 75 - 125% | PASS | |
| Selenium (Se) | NA | 85.541 | 0.025 | 0.05 | µg/dry g | 85.9 | 100 | 75 - 125% | PASS | |



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CA ELAP #2769

Elements

QUALITY CONTROL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | SPIKE LEVEL | SOURCE RESULT | ACCURACY | | PRECISION | | QA CODE |
|--------------|----------|-------------------|---------|---------|------------------|----------------|------------------|---------------------|-----------|---------------------|--------|---------|
| | | | | | | | | % | LIMITS | % | LIMITS | |
| Silver (Ag) | NA | 59.08 | 0.01 | 0.02 | µg/dry g | 61.3 | | 96 | 75 - 125% | PASS | | |
| Zinc (Zn) | NA | 200.501 | 0.025 | 0.05 | µg/dry g | 204 | | 98 | 75 - 125% | PASS | | |
| | | Method: EPA 245.7 | | | Batch ID: E-6013 | | | Prepared: 27-Aug-13 | | Analyzed: 27-Aug-13 | | |
| Mercury (Hg) | NA | 8.7 | 0.00001 | 0.00002 | µg/dry g | 9.25 | | 94 | 75 - 125% | PASS | | |



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PCB Congeners

QUALITY CONTROL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | SPIKE LEVEL | SOURCE RESULT | ACCURACY % | PRECISION % | QA CODE |
|---------|----------|--------|-----|----|-------|-------------|---------------|------------|-------------|---------|
| | | | | | | | | LIMITS | LIMITS | |

Sample ID: 19187-CRM1

QAQC CRM - SRM 1944

Matrix: Sediment

Sampled:

Received:

Method: EPA 8270C

Batch ID: O-6005

Prepared: 24-Aug-13

Analyzed: 06-Sep-13

| | | | | | | | | | | |
|--------|----|------|------|-----|----------|------|-----|-----------|------|--|
| PCB008 | NA | 17.3 | 0.05 | 0.1 | µg/dry g | 22.3 | 78 | 70 - 130% | PASS | |
| PCB018 | NA | 38.1 | 0.05 | 0.1 | µg/dry g | 51 | 75 | 70 - 130% | PASS | |
| PCB028 | NA | 58.3 | 0.05 | 0.1 | µg/dry g | 80.8 | 72 | 70 - 130% | PASS | |
| PCB031 | NA | 61.7 | 0.05 | 0.1 | µg/dry g | 78.7 | 78 | 70 - 130% | PASS | |
| PCB044 | NA | 44.8 | 0.05 | 0.1 | µg/dry g | 60.2 | 74 | 70 - 130% | PASS | |
| PCB049 | NA | 38.9 | 0.05 | 0.1 | µg/dry g | 53 | 73 | 70 - 130% | PASS | |
| PCB052 | NA | 61.5 | 0.05 | 0.1 | µg/dry g | 79.4 | 77 | 70 - 130% | PASS | |
| PCB066 | NA | 52.2 | 0.05 | 0.1 | µg/dry g | 71.9 | 73 | 70 - 130% | PASS | |
| PCB087 | NA | 21.6 | 0.05 | 0.1 | µg/dry g | 29.9 | 72 | 70 - 130% | PASS | |
| PCB095 | NA | 54 | 0.05 | 0.1 | µg/dry g | 65 | 83 | 70 - 130% | PASS | |
| PCB099 | NA | 27.8 | 0.05 | 0.1 | µg/dry g | 37.5 | 74 | 70 - 130% | PASS | |
| PCB101 | NA | 53.1 | 0.05 | 0.1 | µg/dry g | 73.4 | 72 | 70 - 130% | PASS | |
| PCB105 | NA | 17.5 | 0.05 | 0.1 | µg/dry g | 24.5 | 71 | 70 - 130% | PASS | |
| PCB110 | NA | 45.2 | 0.05 | 0.1 | µg/dry g | 63.5 | 71 | 70 - 130% | PASS | |
| PCB118 | NA | 42.3 | 0.05 | 0.1 | µg/dry g | 58 | 73 | 70 - 130% | PASS | |
| PCB128 | NA | 6 | 0.05 | 0.1 | µg/dry g | 8.5 | 71 | 70 - 130% | PASS | |
| PCB138 | NA | 53.8 | 0.05 | 0.1 | µg/dry g | 62.1 | 87 | 70 - 130% | PASS | |
| PCB149 | NA | 35.8 | 0.05 | 0.1 | µg/dry g | 49.7 | 72 | 70 - 130% | PASS | |
| PCB151 | NA | 13.3 | 0.05 | 0.1 | µg/dry g | 16.9 | 79 | 70 - 130% | PASS | |
| PCB153 | NA | 65.9 | 0.05 | 0.1 | µg/dry g | 74 | 89 | 70 - 130% | PASS | |
| PCB156 | NA | 5.6 | 0.05 | 0.1 | µg/dry g | 6.5 | 86 | 70 - 130% | PASS | |
| PCB170 | NA | 25.7 | 0.05 | 0.1 | µg/dry g | 22.6 | 114 | 70 - 130% | PASS | |
| PCB180 | NA | 54.6 | 0.05 | 0.1 | µg/dry g | 44.3 | 123 | 70 - 130% | PASS | |
| PCB183 | NA | 13.9 | 0.05 | 0.1 | µg/dry g | 12.2 | 114 | 70 - 130% | PASS | |
| PCB187 | NA | 27.4 | 0.05 | 0.1 | µg/dry g | 24.1 | 114 | 70 - 130% | PASS | |
| PCB194 | NA | 12 | 0.05 | 0.1 | µg/dry g | 11.2 | 107 | 70 - 130% | PASS | |
| PCB195 | NA | 4.7 | 0.05 | 0.1 | µg/dry g | 3.8 | 124 | 70 - 130% | PASS | |
| PCB206 | NA | 7.2 | 0.05 | 0.1 | µg/dry g | 9.2 | 78 | 70 - 130% | PASS | |
| PCB209 | NA | 4.8 | 0.05 | 0.1 | µg/dry g | 6.8 | 71 | 70 - 130% | PASS | |



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CA ELAP #2769

PCB Congeners

QUALITY CONTROL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | SPIKE | SOURCE | ACCURACY | PRECISION | QA CODE |
|---------|----------|--------|-----|----|-------|-------|--------|----------|-----------|---------|
| | | | | | | LEVEL | RESULT | % LIMITS | % LIMITS | |

Sample ID: 21731-B1

QAQC Procedural Blank

Matrix: DI Water

Sampled:

Received:

Method: EPA 8270C

Batch ID: O-6001

Prepared: 09-Aug-13

Analyzed: 30-Aug-13

| | | | | | |
|-------------|----|----|------|-----|----------|
| PCB003 | NA | ND | 0.05 | 0.1 | ng/dry g |
| PCB005 | NA | ND | 0.05 | 0.1 | ng/dry g |
| PCB008 | NA | ND | 0.05 | 0.1 | ng/dry g |
| PCB015 | NA | ND | 0.05 | 0.1 | ng/dry g |
| PCB018 | NA | ND | 0.05 | 0.1 | ng/dry g |
| PCB027 | NA | ND | 0.05 | 0.1 | ng/dry g |
| PCB028 | NA | ND | 0.05 | 0.1 | ng/dry g |
| PCB029 | NA | ND | 0.05 | 0.1 | ng/dry g |
| PCB031 | NA | ND | 0.05 | 0.1 | ng/dry g |
| PCB033 | NA | ND | 0.05 | 0.1 | ng/dry g |
| PCB037 | NA | ND | 0.05 | 0.1 | ng/dry g |
| PCB044 | NA | ND | 0.05 | 0.1 | ng/dry g |
| PCB049 | NA | ND | 0.05 | 0.1 | ng/dry g |
| PCB052 | NA | ND | 0.05 | 0.1 | ng/dry g |
| PCB056(060) | NA | ND | 0.1 | 0.2 | ng/dry g |
| PCB066 | NA | ND | 0.05 | 0.1 | ng/dry g |
| PCB070 | NA | ND | 0.05 | 0.1 | ng/dry g |
| PCB074 | NA | ND | 0.05 | 0.1 | ng/dry g |
| PCB077 | NA | ND | 0.05 | 0.1 | ng/dry g |
| PCB081 | NA | ND | 0.05 | 0.1 | ng/dry g |
| PCB087 | NA | ND | 0.05 | 0.1 | ng/dry g |
| PCB095 | NA | ND | 0.05 | 0.1 | ng/dry g |
| PCB097 | NA | ND | 0.05 | 0.1 | ng/dry g |
| PCB099 | NA | ND | 0.05 | 0.1 | ng/dry g |
| PCB101 | NA | ND | 0.05 | 0.1 | ng/dry g |
| PCB105 | NA | ND | 0.05 | 0.1 | ng/dry g |
| PCB110 | NA | ND | 0.05 | 0.1 | ng/dry g |
| PCB114 | NA | ND | 0.05 | 0.1 | ng/dry g |
| PCB118 | NA | ND | 0.05 | 0.1 | ng/dry g |



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PCB Congeners

QUALITY CONTROL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | SPIKE LEVEL | SOURCE RESULT | ACCURACY | | PRECISION | | QA CODE |
|-------------|----------|--------|------|-----|----------|----------------|------------------|----------|--------|-----------|--------|---------|
| | | | | | | | | % | LIMITS | % | LIMITS | |
| PCB119 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | | |
| PCB123 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | | |
| PCB126 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | | |
| PCB128 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | | |
| PCB137 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | | |
| PCB138 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | | |
| PCB141 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | | |
| PCB149 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | | |
| PCB151 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | | |
| PCB153 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | | |
| PCB156 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | | |
| PCB157 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | | |
| PCB158 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | | |
| PCB167 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | | |
| PCB168+132 | NA | ND | 0.1 | 0.2 | ng/dry g | | | | | | | |
| PCB169 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | | |
| PCB170 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | | |
| PCB174 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | | |
| PCB177 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | | |
| PCB180 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | | |
| PCB183 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | | |
| PCB187 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | | |
| PCB189 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | | |
| PCB194 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | | |
| PCB195 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | | |
| PCB199(200) | NA | ND | 0.1 | 0.2 | ng/dry g | | | | | | | |
| PCB201 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | | |
| PCB203 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | | |
| PCB206 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | | |
| PCB209 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | | |

Sample ID: 21731-BS1

QAQC Procedural Blank

Matrix: DI Water

Sampled:

Received:

PHYSIS Project ID: 1307001-001

Client: AMEC

Project: POLA/POLB Harbor Toxics TMDL and Bight '13



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PCB Congeners

QUALITY CONTROL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | SPIKE LEVEL | SOURCE RESULT | ACCURACY % | PRECISION % | QA CODE |
|-------------------|----------|------------------|------|---------------------|----------|---------------------|---------------|------------|-------------|---------|
| | | | | | | | | LIMITS | LIMITS | |
| Method: EPA 8270C | | Batch ID: O-6001 | | Prepared: 09-Aug-13 | | Analyzed: 30-Aug-13 | | | | |
| PCB003 | NA | 381.28 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 95 | 50 - 150% | PASS |
| PCB005 | NA | 369.02 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 92 | 50 - 150% | PASS |
| PCB008 | NA | 389.9 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 97 | 50 - 150% | PASS |
| PCB015 | NA | 417.03 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 104 | 50 - 150% | PASS |
| PCB018 | NA | 392.69 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 98 | 50 - 150% | PASS |
| PCB027 | NA | 365.69 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 91 | 50 - 150% | PASS |
| PCB028 | NA | 379.88 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 95 | 50 - 150% | PASS |
| PCB029 | NA | 371.24 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 93 | 50 - 150% | PASS |
| PCB031 | NA | 387.13 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 97 | 50 - 150% | PASS |
| PCB033 | NA | 383.99 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 96 | 50 - 150% | PASS |
| PCB037 | NA | 412.52 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 103 | 50 - 150% | PASS |
| PCB044 | NA | 394.87 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 99 | 50 - 150% | PASS |
| PCB049 | NA | 380.16 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 95 | 50 - 150% | PASS |
| PCB052 | NA | 385.25 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 96 | 50 - 150% | PASS |
| PCB056(060) | NA | 463.8 | 0.1 | 0.2 | ng/dry g | 400 | 0 | 116 | 50 - 150% | PASS |
| PCB066 | NA | 403.62 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 101 | 50 - 150% | PASS |
| PCB070 | NA | 419.97 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 105 | 50 - 150% | PASS |
| PCB074 | NA | 431.59 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 108 | 50 - 150% | PASS |
| PCB077 | NA | 425.15 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 106 | 50 - 150% | PASS |
| PCB081 | NA | 399.57 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 100 | 50 - 150% | PASS |
| PCB087 | NA | 381.62 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 95 | 50 - 150% | PASS |
| PCB095 | NA | 375.12 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 94 | 50 - 150% | PASS |
| PCB097 | NA | 404.66 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 101 | 50 - 150% | PASS |
| PCB099 | NA | 398.16 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 100 | 50 - 150% | PASS |
| PCB101 | NA | 407.96 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 102 | 50 - 150% | PASS |
| PCB105 | NA | 373.98 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 93 | 50 - 150% | PASS |
| PCB110 | NA | 385.88 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 96 | 50 - 150% | PASS |
| PCB114 | NA | 440.93 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 110 | 50 - 150% | PASS |
| PCB118 | NA | 405.94 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 101 | 50 - 150% | PASS |
| PCB119 | NA | 392.93 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 98 | 50 - 150% | PASS |



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CA ELAP #2769

PCB Congeners

QUALITY CONTROL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | SPIKE LEVEL | SOURCE RESULT | ACCURACY | | PRECISION | | QA CODE |
|-------------|----------|--------|------|-----|----------|-------------|---------------|----------|-----------|-----------|--------|---------|
| | | | | | | | | % | LIMITS | % | LIMITS | |
| PCB123 | NA | 410.18 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 103 | 50 - 150% | PASS | | |
| PCB126 | NA | 423.88 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 106 | 50 - 150% | PASS | | |
| PCB128 | NA | 384.48 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 96 | 50 - 150% | PASS | | |
| PCB137 | NA | 398.55 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 100 | 50 - 150% | PASS | | |
| PCB138 | NA | 400.9 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 100 | 50 - 150% | PASS | | |
| PCB141 | NA | 356.98 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 89 | 50 - 150% | PASS | | |
| PCB149 | NA | 370.62 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 93 | 50 - 150% | PASS | | |
| PCB151 | NA | 390.26 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 98 | 50 - 150% | PASS | | |
| PCB153 | NA | 386.27 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 97 | 50 - 150% | PASS | | |
| PCB156 | NA | 477.92 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 119 | 50 - 150% | PASS | | |
| PCB157 | NA | 446.79 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 112 | 50 - 150% | PASS | | |
| PCB158 | NA | 378.82 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 95 | 50 - 150% | PASS | | |
| PCB167 | NA | 388.58 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 97 | 50 - 150% | PASS | | |
| PCB168+132 | NA | 718.8 | 0.1 | 0.2 | ng/dry g | 800 | 0 | 90 | 50 - 150% | PASS | | |
| PCB169 | NA | 461.91 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 115 | 50 - 150% | PASS | | |
| PCB170 | NA | 423.1 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 106 | 50 - 150% | PASS | | |
| PCB174 | NA | 400.15 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 100 | 50 - 150% | PASS | | |
| PCB177 | NA | 409.85 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 102 | 50 - 150% | PASS | | |
| PCB180 | NA | 403.98 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 101 | 50 - 150% | PASS | | |
| PCB183 | NA | 392.99 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 98 | 50 - 150% | PASS | | |
| PCB187 | NA | 379.6 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 95 | 50 - 150% | PASS | | |
| PCB189 | NA | 423.65 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 106 | 50 - 150% | PASS | | |
| PCB194 | NA | 436.25 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 109 | 50 - 150% | PASS | | |
| PCB195 | NA | 396.49 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 99 | 50 - 150% | PASS | | |
| PCB199(200) | NA | 368.7 | 0.1 | 0.2 | ng/dry g | 400 | 0 | 92 | 50 - 150% | PASS | | |
| PCB201 | NA | 417.91 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 104 | 50 - 150% | PASS | | |
| PCB203 | NA | 426.66 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 107 | 50 - 150% | PASS | | |
| PCB206 | NA | 432.11 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 108 | 50 - 150% | PASS | | |
| PCB209 | NA | 415.22 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 104 | 50 - 150% | PASS | | |

Sample ID: 21731-BS2

QAQC Procedural Blank

Matrix: DI Water

Sampled:

Received:

Method: EPA 8270C

Batch ID: O-6001

Prepared: 09-Aug-13

Analyzed: 30-Aug-13

PHYSIS Project ID: 1307001-001

Client: AMEC

Project: POLA/POLB Harbor Toxics TMDL and Bight '13



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CA ELAP #2769

PCB Congeners

QUALITY CONTROL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | SPIKE LEVEL | SOURCE RESULT | ACCURACY | | PRECISION | | QA CODE | |
|-------------|----------|--------|------|-----|----------|-------------|---------------|----------|-----------|-----------|--------|---------|------|
| | | | | | | | | % | LIMITS | % | LIMITS | | |
| PCB003 | NA | 382.8 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 96 | 50 - 150% | PASS | 1 | 25 | PASS |
| PCB005 | NA | 368.58 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 92 | 50 - 150% | PASS | 0 | 25 | PASS |
| PCB008 | NA | 398.33 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 100 | 50 - 150% | PASS | 3 | 25 | PASS |
| PCB015 | NA | 414.17 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 104 | 50 - 150% | PASS | 0 | 25 | PASS |
| PCB018 | NA | 402.79 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 101 | 50 - 150% | PASS | 3 | 25 | PASS |
| PCB027 | NA | 367.23 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 92 | 50 - 150% | PASS | 1 | 25 | PASS |
| PCB028 | NA | 373.39 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 93 | 50 - 150% | PASS | 2 | 25 | PASS |
| PCB029 | NA | 364.94 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 91 | 50 - 150% | PASS | 2 | 25 | PASS |
| PCB031 | NA | 389 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 97 | 50 - 150% | PASS | 0 | 25 | PASS |
| PCB033 | NA | 381.67 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 95 | 50 - 150% | PASS | 1 | 25 | PASS |
| PCB037 | NA | 400.89 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 100 | 50 - 150% | PASS | 3 | 25 | PASS |
| PCB044 | NA | 390.84 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 98 | 50 - 150% | PASS | 1 | 25 | PASS |
| PCB049 | NA | 377.16 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 94 | 50 - 150% | PASS | 1 | 25 | PASS |
| PCB052 | NA | 385.16 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 96 | 50 - 150% | PASS | 0 | 25 | PASS |
| PCB056(060) | NA | 461 | 0.1 | 0.2 | ng/dry g | 400 | 0 | 115 | 50 - 150% | PASS | 1 | 25 | PASS |
| PCB066 | NA | 399.65 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 100 | 50 - 150% | PASS | 1 | 25 | PASS |
| PCB070 | NA | 416.54 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 104 | 50 - 150% | PASS | 1 | 25 | PASS |
| PCB074 | NA | 420.31 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 105 | 50 - 150% | PASS | 3 | 25 | PASS |
| PCB077 | NA | 402.75 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 101 | 50 - 150% | PASS | 5 | 25 | PASS |
| PCB081 | NA | 390.49 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 98 | 50 - 150% | PASS | 2 | 25 | PASS |
| PCB087 | NA | 375.59 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 94 | 50 - 150% | PASS | 1 | 25 | PASS |
| PCB095 | NA | 377.54 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 94 | 50 - 150% | PASS | 0 | 25 | PASS |
| PCB097 | NA | 393.78 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 98 | 50 - 150% | PASS | 3 | 25 | PASS |
| PCB099 | NA | 399.08 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 100 | 50 - 150% | PASS | 0 | 25 | PASS |
| PCB101 | NA | 408.81 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 102 | 50 - 150% | PASS | 0 | 25 | PASS |
| PCB105 | NA | 370.58 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 93 | 50 - 150% | PASS | 0 | 25 | PASS |
| PCB110 | NA | 382.54 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 96 | 50 - 150% | PASS | 0 | 25 | PASS |
| PCB114 | NA | 439.5 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 110 | 50 - 150% | PASS | 0 | 25 | PASS |
| PCB118 | NA | 395.94 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 99 | 50 - 150% | PASS | 2 | 25 | PASS |
| PCB119 | NA | 388.68 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 97 | 50 - 150% | PASS | 1 | 25 | PASS |
| PCB123 | NA | 402.69 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 101 | 50 - 150% | PASS | 2 | 25 | PASS |



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CA ELAP #2769

PCB Congeners

QUALITY CONTROL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | SPIKE LEVEL | SOURCE RESULT | ACCURACY | | PRECISION | | QA CODE | |
|-------------|----------|--------|------|-----|----------|-------------|---------------|----------|-----------|-----------|--------|---------|------|
| | | | | | | | | % | LIMITS | % | LIMITS | | |
| PCB126 | NA | 403.65 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 101 | 50 - 150% | PASS | 5 | 25 | PASS |
| PCB128 | NA | 367.9 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 92 | 50 - 150% | PASS | 4 | 25 | PASS |
| PCB137 | NA | 399.97 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 100 | 50 - 150% | PASS | 0 | 25 | PASS |
| PCB138 | NA | 389.76 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 97 | 50 - 150% | PASS | 3 | 25 | PASS |
| PCB141 | NA | 356.38 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 89 | 50 - 150% | PASS | 0 | 25 | PASS |
| PCB149 | NA | 369.56 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 92 | 50 - 150% | PASS | 1 | 25 | PASS |
| PCB151 | NA | 390.59 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 98 | 50 - 150% | PASS | 0 | 25 | PASS |
| PCB153 | NA | 384.24 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 96 | 50 - 150% | PASS | 1 | 25 | PASS |
| PCB156 | NA | 475.81 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 119 | 50 - 150% | PASS | 0 | 25 | PASS |
| PCB157 | NA | 444.98 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 111 | 50 - 150% | PASS | 1 | 25 | PASS |
| PCB158 | NA | 371.79 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 93 | 50 - 150% | PASS | 2 | 25 | PASS |
| PCB167 | NA | 382.88 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 96 | 50 - 150% | PASS | 1 | 25 | PASS |
| PCB168+132 | NA | 720.7 | 0.1 | 0.2 | ng/dry g | 800 | 0 | 90 | 50 - 150% | PASS | 0 | 25 | PASS |
| PCB169 | NA | 453.73 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 113 | 50 - 150% | PASS | 2 | 25 | PASS |
| PCB170 | NA | 414.6 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 104 | 50 - 150% | PASS | 2 | 25 | PASS |
| PCB174 | NA | 394.94 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 99 | 50 - 150% | PASS | 1 | 25 | PASS |
| PCB177 | NA | 409.22 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 102 | 50 - 150% | PASS | 0 | 25 | PASS |
| PCB180 | NA | 403.83 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 101 | 50 - 150% | PASS | 0 | 25 | PASS |
| PCB183 | NA | 385.8 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 96 | 50 - 150% | PASS | 2 | 25 | PASS |
| PCB187 | NA | 380.35 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 95 | 50 - 150% | PASS | 0 | 25 | PASS |
| PCB189 | NA | 409.16 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 102 | 50 - 150% | PASS | 4 | 25 | PASS |
| PCB194 | NA | 430.26 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 108 | 50 - 150% | PASS | 1 | 25 | PASS |
| PCB195 | NA | 391.52 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 98 | 50 - 150% | PASS | 1 | 25 | PASS |
| PCB199(200) | NA | 368.9 | 0.1 | 0.2 | ng/dry g | 400 | 0 | 92 | 50 - 150% | PASS | 0 | 25 | PASS |
| PCB201 | NA | 417.72 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 104 | 50 - 150% | PASS | 0 | 25 | PASS |
| PCB203 | NA | 412.84 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 103 | 50 - 150% | PASS | 4 | 25 | PASS |
| PCB206 | NA | 417.19 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 104 | 50 - 150% | PASS | 4 | 25 | PASS |
| PCB209 | NA | 404.9 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 101 | 50 - 150% | PASS | 3 | 25 | PASS |

Sample ID: 21732-B1

QAQC Procedural Blank

Matrix: DI Water

Sampled:

Received:

Method: EPA 8270C

Batch ID: O-6005

Prepared: 24-Aug-13

Analyzed: 06-Sep-13

| | | | | | | | | | | | | | |
|--------|----|----|------|-----|----------|--|--|--|--|--|--|--|--|
| PCB003 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | | | |
|--------|----|----|------|-----|----------|--|--|--|--|--|--|--|--|



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CA ELAP #2769

PCB Congeners

QUALITY CONTROL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | SPIKE LEVEL | SOURCE RESULT | ACCURACY | | PRECISION | | QA CODE |
|-------------|----------|--------|------|-----|----------|----------------|------------------|----------|--------|-----------|--------|---------|
| | | | | | | | | % | LIMITS | % | LIMITS | |
| PCB005 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | | |
| PCB008 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | | |
| PCB015 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | | |
| PCB018 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | | |
| PCB027 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | | |
| PCB028 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | | |
| PCB029 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | | |
| PCB031 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | | |
| PCB033 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | | |
| PCB037 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | | |
| PCB044 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | | |
| PCB049 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | | |
| PCB052 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | | |
| PCB056(060) | NA | ND | 0.1 | 0.2 | ng/dry g | | | | | | | |
| PCB066 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | | |
| PCB070 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | | |
| PCB074 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | | |
| PCB077 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | | |
| PCB081 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | | |
| PCB087 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | | |
| PCB095 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | | |
| PCB097 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | | |
| PCB099 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | | |
| PCB101 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | | |
| PCB105 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | | |
| PCB110 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | | |
| PCB114 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | | |
| PCB118 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | | |
| PCB119 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | | |
| PCB123 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | | |
| PCB126 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | | |



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CA ELAP #2769

PCB Congeners

QUALITY CONTROL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | SPIKE LEVEL | SOURCE RESULT | ACCURACY % | PRECISION % | QA CODE |
|-------------|----------|--------|------|-----|----------|-------------|---------------|------------|-------------|---------|
| | | | | | | | | LIMITS | LIMITS | |
| PCB128 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |
| PCB137 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |
| PCB138 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |
| PCB141 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |
| PCB149 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |
| PCB151 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |
| PCB153 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |
| PCB156 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |
| PCB157 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |
| PCB158 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |
| PCB167 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |
| PCB168+132 | NA | ND | 0.1 | 0.2 | ng/dry g | | | | | |
| PCB169 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |
| PCB170 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |
| PCB174 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |
| PCB177 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |
| PCB180 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |
| PCB183 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |
| PCB187 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |
| PCB189 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |
| PCB194 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |
| PCB195 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |
| PCB199(200) | NA | ND | 0.1 | 0.2 | ng/dry g | | | | | |
| PCB201 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |
| PCB203 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |
| PCB206 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |
| PCB209 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |

Sample ID: 21732-BS1

QAQC Procedural Blank

Matrix: DI Water

Sampled:

Received:

Method: EPA 8270C

Batch ID: O-6005

Prepared: 24-Aug-13

Analyzed: 06-Sep-13

| | | | | | | | | | | |
|--------|----|--------|------|-----|----------|-----|---|-----|-----------|------|
| PCB003 | NA | 422.05 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 106 | 50 - 150% | PASS |
| PCB005 | NA | 420.28 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 105 | 50 - 150% | PASS |

PHYSIS Project ID: 1307001-001

Client: AMEC

Project: POLA/POLB Harbor Toxics TMDL and Bight '13



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CA ELAP #2769

PCB Congeners

QUALITY CONTROL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | SPIKE LEVEL | SOURCE RESULT | ACCURACY | | PRECISION | | QA CODE |
|-------------|----------|--------|------|-----|----------|-------------|---------------|----------|-----------|-----------|--------|---------|
| | | | | | | | | % | LIMITS | % | LIMITS | |
| PCB008 | NA | 394.7 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 99 | 50 - 150% | PASS | | |
| PCB015 | NA | 380.5 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 95 | 50 - 150% | PASS | | |
| PCB018 | NA | 372.9 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 93 | 50 - 150% | PASS | | |
| PCB027 | NA | 315.3 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 79 | 50 - 150% | PASS | | |
| PCB028 | NA | 421.92 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 105 | 50 - 150% | PASS | | |
| PCB029 | NA | 405.81 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 101 | 50 - 150% | PASS | | |
| PCB031 | NA | 352.5 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 88 | 50 - 150% | PASS | | |
| PCB033 | NA | 379.5 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 95 | 50 - 150% | PASS | | |
| PCB037 | NA | 408.14 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 102 | 50 - 150% | PASS | | |
| PCB044 | NA | 409.6 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 102 | 50 - 150% | PASS | | |
| PCB049 | NA | 423.7 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 106 | 50 - 150% | PASS | | |
| PCB052 | NA | 405.7 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 101 | 50 - 150% | PASS | | |
| PCB056(060) | NA | 403.6 | 0.1 | 0.2 | ng/dry g | 400 | 0 | 101 | 50 - 150% | PASS | | |
| PCB066 | NA | 402.6 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 101 | 50 - 150% | PASS | | |
| PCB070 | NA | 378.3 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 95 | 50 - 150% | PASS | | |
| PCB074 | NA | 396.2 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 99 | 50 - 150% | PASS | | |
| PCB077 | NA | 373.2 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 93 | 50 - 150% | PASS | | |
| PCB081 | NA | 410.76 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 103 | 50 - 150% | PASS | | |
| PCB087 | NA | 422 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 105 | 50 - 150% | PASS | | |
| PCB095 | NA | 418.64 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 105 | 50 - 150% | PASS | | |
| PCB097 | NA | 411 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 103 | 50 - 150% | PASS | | |
| PCB099 | NA | 382.8 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 96 | 50 - 150% | PASS | | |
| PCB101 | NA | 388.9 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 97 | 50 - 150% | PASS | | |
| PCB105 | NA | 341 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 85 | 50 - 150% | PASS | | |
| PCB110 | NA | 360.9 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 90 | 50 - 150% | PASS | | |
| PCB114 | NA | 414.6 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 104 | 50 - 150% | PASS | | |
| PCB118 | NA | 346.4 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 87 | 50 - 150% | PASS | | |
| PCB119 | NA | 398.2 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 100 | 50 - 150% | PASS | | |
| PCB123 | NA | 406.5 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 102 | 50 - 150% | PASS | | |
| PCB126 | NA | 391.7 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 98 | 50 - 150% | PASS | | |
| PCB128 | NA | 427.55 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 107 | 50 - 150% | PASS | | |



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PCB Congeners

QUALITY CONTROL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | SPIKE LEVEL | SOURCE RESULT | ACCURACY | | PRECISION | | QA CODE |
|-------------|----------|--------|------|-----|----------|-------------|---------------|----------|-----------|-----------|--------|---------|
| | | | | | | | | % | LIMITS | % | LIMITS | |
| PCB137 | NA | 403.48 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 101 | 50 - 150% | PASS | | |
| PCB138 | NA | 363.9 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 91 | 50 - 150% | PASS | | |
| PCB141 | NA | 381.04 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 95 | 50 - 150% | PASS | | |
| PCB149 | NA | 380.6 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 95 | 50 - 150% | PASS | | |
| PCB151 | NA | 380.54 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 95 | 50 - 150% | PASS | | |
| PCB153 | NA | 402.6 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 101 | 50 - 150% | PASS | | |
| PCB156 | NA | 392.1 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 98 | 50 - 150% | PASS | | |
| PCB157 | NA | 363.7 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 91 | 50 - 150% | PASS | | |
| PCB158 | NA | 414.5 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 104 | 50 - 150% | PASS | | |
| PCB167 | NA | 418.7 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 105 | 50 - 150% | PASS | | |
| PCB168+132 | NA | 812.9 | 0.1 | 0.2 | ng/dry g | 800 | 0 | 102 | 50 - 150% | PASS | | |
| PCB169 | NA | 443.1 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 111 | 50 - 150% | PASS | | |
| PCB170 | NA | 405.9 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 101 | 50 - 150% | PASS | | |
| PCB174 | NA | 371.6 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 93 | 50 - 150% | PASS | | |
| PCB177 | NA | 384.1 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 96 | 50 - 150% | PASS | | |
| PCB180 | NA | 404.2 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 101 | 50 - 150% | PASS | | |
| PCB183 | NA | 396.6 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 99 | 50 - 150% | PASS | | |
| PCB187 | NA | 403.82 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 101 | 50 - 150% | PASS | | |
| PCB189 | NA | 380.9 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 95 | 50 - 150% | PASS | | |
| PCB194 | NA | 437.1 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 109 | 50 - 150% | PASS | | |
| PCB195 | NA | 406.5 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 102 | 50 - 150% | PASS | | |
| PCB199(200) | NA | 422.9 | 0.1 | 0.2 | ng/dry g | 400 | 0 | 106 | 50 - 150% | PASS | | |
| PCB201 | NA | 360.9 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 90 | 50 - 150% | PASS | | |
| PCB203 | NA | 405.5 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 101 | 50 - 150% | PASS | | |
| PCB206 | NA | 416.6 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 104 | 50 - 150% | PASS | | |
| PCB209 | NA | 409.3 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 102 | 50 - 150% | PASS | | |

Sample ID: 21732-BS2

QAQC Procedural Blank

Matrix: DI Water

Sampled:

Received:

Method: EPA 8270C

Batch ID: O-6005

Prepared: 24-Aug-13

Analyzed: 06-Sep-13

| | | | | | | | | | | | | | |
|--------|----|--------|------|-----|----------|-----|---|----|-----------|------|----|----|------|
| PCB003 | NA | 393.38 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 98 | 50 - 150% | PASS | 8 | 25 | PASS |
| PCB005 | NA | 371.79 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 93 | 50 - 150% | PASS | 12 | 25 | PASS |
| PCB008 | NA | 381.4 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 95 | 50 - 150% | PASS | 4 | 25 | PASS |



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PCB Congeners

QUALITY CONTROL REPORT

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|-------------|----------|--------|------|-----|----------|-------------|---------------|----------|-----------|-----------|--------|---------|
| | | | | | | | | % | LIMITS | % | LIMITS | |
| PCB015 | NA | 409.8 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 102 | 50 - 150% | PASS | 7 25 | PASS |
| PCB018 | NA | 390.1 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 98 | 50 - 150% | PASS | 5 25 | PASS |
| PCB027 | NA | 334.5 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 84 | 50 - 150% | PASS | 6 25 | PASS |
| PCB028 | NA | 445.27 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 111 | 50 - 150% | PASS | 6 25 | PASS |
| PCB029 | NA | 337.81 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 84 | 50 - 150% | PASS | 18 25 | PASS |
| PCB031 | NA | 330.5 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 83 | 50 - 150% | PASS | 6 25 | PASS |
| PCB033 | NA | 384.1 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 96 | 50 - 150% | PASS | 1 25 | PASS |
| PCB037 | NA | 432.74 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 108 | 50 - 150% | PASS | 6 25 | PASS |
| PCB044 | NA | 426.83 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 107 | 50 - 150% | PASS | 5 25 | PASS |
| PCB049 | NA | 432.1 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 108 | 50 - 150% | PASS | 2 25 | PASS |
| PCB052 | NA | 425.42 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 106 | 50 - 150% | PASS | 5 25 | PASS |
| PCB056(060) | NA | 391.2 | 0.1 | 0.2 | ng/dry g | 400 | 0 | 98 | 50 - 150% | PASS | 3 25 | PASS |
| PCB066 | NA | 398.1 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 100 | 50 - 150% | PASS | 1 25 | PASS |
| PCB070 | NA | 418.7 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 105 | 50 - 150% | PASS | 10 25 | PASS |
| PCB074 | NA | 380.3 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 95 | 50 - 150% | PASS | 4 25 | PASS |
| PCB077 | NA | 388.3 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 97 | 50 - 150% | PASS | 4 25 | PASS |
| PCB081 | NA | 382.3 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 96 | 50 - 150% | PASS | 7 25 | PASS |
| PCB087 | NA | 405.3 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 101 | 50 - 150% | PASS | 4 25 | PASS |
| PCB095 | NA | 403.9 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 101 | 50 - 150% | PASS | 4 25 | PASS |
| PCB097 | NA | 422.33 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 106 | 50 - 150% | PASS | 3 25 | PASS |
| PCB099 | NA | 390.5 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 98 | 50 - 150% | PASS | 2 25 | PASS |
| PCB101 | NA | 355.5 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 89 | 50 - 150% | PASS | 9 25 | PASS |
| PCB105 | NA | 340.9 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 85 | 50 - 150% | PASS | 0 25 | PASS |
| PCB110 | NA | 345.8 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 86 | 50 - 150% | PASS | 5 25 | PASS |
| PCB114 | NA | 347.1 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 87 | 50 - 150% | PASS | 18 25 | PASS |
| PCB118 | NA | 358.4 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 90 | 50 - 150% | PASS | 3 25 | PASS |
| PCB119 | NA | 383.6 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 96 | 50 - 150% | PASS | 4 25 | PASS |
| PCB123 | NA | 427.7 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 107 | 50 - 150% | PASS | 5 25 | PASS |
| PCB126 | NA | 383.46 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 96 | 50 - 150% | PASS | 2 25 | PASS |
| PCB128 | NA | 399.1 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 100 | 50 - 150% | PASS | 7 25 | PASS |
| PCB137 | NA | 381.3 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 95 | 50 - 150% | PASS | 6 25 | PASS |



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PCB Congeners

QUALITY CONTROL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | SPIKE LEVEL | SOURCE RESULT | ACCURACY | | PRECISION | | QA CODE | |
|-------------|----------|--------|------|-----|----------|-------------|---------------|----------|-----------|-----------|--------|---------|------|
| | | | | | | | | % | LIMITS | % | LIMITS | | |
| PCB138 | NA | 385.56 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 96 | 50 - 150% | PASS | 5 | 25 | PASS |
| PCB141 | NA | 404.99 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 101 | 50 - 150% | PASS | 6 | 25 | PASS |
| PCB149 | NA | 388.1 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 97 | 50 - 150% | PASS | 2 | 25 | PASS |
| PCB151 | NA | 424.01 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 106 | 50 - 150% | PASS | 11 | 25 | PASS |
| PCB153 | NA | 394.73 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 99 | 50 - 150% | PASS | 2 | 25 | PASS |
| PCB156 | NA | 364.3 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 91 | 50 - 150% | PASS | 7 | 25 | PASS |
| PCB157 | NA | 391.8 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 98 | 50 - 150% | PASS | 7 | 25 | PASS |
| PCB158 | NA | 403.61 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 101 | 50 - 150% | PASS | 3 | 25 | PASS |
| PCB167 | NA | 385.7 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 96 | 50 - 150% | PASS | 9 | 25 | PASS |
| PCB168+132 | NA | 835 | 0.1 | 0.2 | ng/dry g | 800 | 0 | 104 | 50 - 150% | PASS | 2 | 25 | PASS |
| PCB169 | NA | 435.08 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 109 | 50 - 150% | PASS | 2 | 25 | PASS |
| PCB170 | NA | 401.45 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 100 | 50 - 150% | PASS | 1 | 25 | PASS |
| PCB174 | NA | 382.74 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 96 | 50 - 150% | PASS | 3 | 25 | PASS |
| PCB177 | NA | 391.3 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 98 | 50 - 150% | PASS | 2 | 25 | PASS |
| PCB180 | NA | 395.8 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 99 | 50 - 150% | PASS | 2 | 25 | PASS |
| PCB183 | NA | 370.45 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 93 | 50 - 150% | PASS | 6 | 25 | PASS |
| PCB187 | NA | 374.14 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 94 | 50 - 150% | PASS | 7 | 25 | PASS |
| PCB189 | NA | 377.61 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 94 | 50 - 150% | PASS | 1 | 25 | PASS |
| PCB194 | NA | 413.64 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 103 | 50 - 150% | PASS | 6 | 25 | PASS |
| PCB195 | NA | 361.16 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 90 | 50 - 150% | PASS | 12 | 25 | PASS |
| PCB199(200) | NA | 432.8 | 0.1 | 0.2 | ng/dry g | 400 | 0 | 108 | 50 - 150% | PASS | 2 | 25 | PASS |
| PCB201 | NA | 382.72 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 96 | 50 - 150% | PASS | 6 | 25 | PASS |
| PCB203 | NA | 374.3 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 94 | 50 - 150% | PASS | 7 | 25 | PASS |
| PCB206 | NA | 389.35 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 97 | 50 - 150% | PASS | 7 | 25 | PASS |
| PCB209 | NA | 446.58 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 112 | 50 - 150% | PASS | 9 | 25 | PASS |

Sample ID: 21733-B1

B13-8382

Matrix: Sediment

Sampled: 10-Jul-13

11:04

Received: 13-Jul-13

Method: EPA 8270C

Batch ID: O-6003

Prepared: 15-Aug-13

Analyzed: 30-Aug-13

| | | | | | | | | | | | | | |
|--------|----|----|------|-----|----------|--|--|--|--|--|--|--|--|
| PCB003 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | | | |
| PCB005 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | | | |
| PCB008 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | | | |
| PCB015 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | | | |



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QUALITY CONTROL REPORT

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|-------------|----------|--------|------|-----|----------|----------------|------------------|----------|--------|-----------|--------|---------|
| | | | | | | | | % | LIMITS | % | LIMITS | |
| PCB018 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | | |
| PCB027 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | | |
| PCB028 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | | |
| PCB029 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | | |
| PCB031 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | | |
| PCB033 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | | |
| PCB037 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | | |
| PCB044 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | | |
| PCB049 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | | |
| PCB052 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | | |
| PCB056(060) | NA | ND | 0.1 | 0.2 | ng/dry g | | | | | | | |
| PCB066 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | | |
| PCB070 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | | |
| PCB074 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | | |
| PCB077 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | | |
| PCB081 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | | |
| PCB087 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | | |
| PCB095 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | | |
| PCB097 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | | |
| PCB099 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | | |
| PCB101 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | | |
| PCB105 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | | |
| PCB110 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | | |
| PCB114 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | | |
| PCB118 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | | |
| PCB119 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | | |
| PCB123 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | | |
| PCB126 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | | |
| PCB128 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | | |
| PCB137 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | | |
| PCB138 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | | |



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|-------------|----------|--------|------|-----|----------|-------------|---------------|------------|-------------|---------|
| | | | | | | | | LIMITS | LIMITS | |
| PCB141 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |
| PCB149 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |
| PCB151 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |
| PCB153 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |
| PCB156 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |
| PCB157 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |
| PCB158 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |
| PCB167 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |
| PCB168+132 | NA | ND | 0.1 | 0.2 | ng/dry g | | | | | |
| PCB169 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |
| PCB170 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |
| PCB174 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |
| PCB177 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |
| PCB180 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |
| PCB183 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |
| PCB187 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |
| PCB189 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |
| PCB194 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |
| PCB195 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |
| PCB199(200) | NA | ND | 0.1 | 0.2 | ng/dry g | | | | | |
| PCB201 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |
| PCB203 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |
| PCB206 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |
| PCB209 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |

Sample ID: 21733-BS1

B13-8382

Matrix: Sediment

Sampled: 10-Jul-13

11:04

Received: 13-Jul-13

Method: EPA 8270C

Batch ID: O-6003

Prepared: 15-Aug-13

Analyzed: 30-Aug-13

| | | | | | | | | | | |
|--------|----|--------|------|-----|----------|-----|---|-----|-----------|------|
| PCB003 | NA | 382.89 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 96 | 50 - 150% | PASS |
| PCB005 | NA | 372.89 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 93 | 50 - 150% | PASS |
| PCB008 | NA | 401.54 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 100 | 50 - 150% | PASS |
| PCB015 | NA | 408.85 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 102 | 50 - 150% | PASS |
| PCB018 | NA | 394.86 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 99 | 50 - 150% | PASS |

PHYSIS Project ID: 1307001-001

Client: AMEC

Project: POLA/POLB Harbor Toxics TMDL and Bight '13



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CA ELAP #2769

PCB Congeners

QUALITY CONTROL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | SPIKE LEVEL | SOURCE RESULT | ACCURACY | | PRECISION | | QA CODE |
|-------------|----------|--------|------|-----|----------|-------------|---------------|----------|-----------|-----------|--------|---------|
| | | | | | | | | % | LIMITS | % | LIMITS | |
| PCB027 | NA | 354.79 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 89 | 50 - 150% | PASS | | |
| PCB028 | NA | 373.75 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 93 | 50 - 150% | PASS | | |
| PCB029 | NA | 369.96 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 92 | 50 - 150% | PASS | | |
| PCB031 | NA | 393.48 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 98 | 50 - 150% | PASS | | |
| PCB033 | NA | 384.83 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 96 | 50 - 150% | PASS | | |
| PCB037 | NA | 409.09 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 102 | 50 - 150% | PASS | | |
| PCB044 | NA | 395.41 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 99 | 50 - 150% | PASS | | |
| PCB049 | NA | 378.1 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 95 | 50 - 150% | PASS | | |
| PCB052 | NA | 389.49 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 97 | 50 - 150% | PASS | | |
| PCB056(060) | NA | 457.9 | 0.1 | 0.2 | ng/dry g | 400 | 0 | 114 | 50 - 150% | PASS | | |
| PCB066 | NA | 400.91 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 100 | 50 - 150% | PASS | | |
| PCB070 | NA | 420.83 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 105 | 50 - 150% | PASS | | |
| PCB074 | NA | 428.03 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 107 | 50 - 150% | PASS | | |
| PCB077 | NA | 419.12 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 105 | 50 - 150% | PASS | | |
| PCB081 | NA | 394.37 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 99 | 50 - 150% | PASS | | |
| PCB087 | NA | 384.47 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 96 | 50 - 150% | PASS | | |
| PCB095 | NA | 376.55 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 94 | 50 - 150% | PASS | | |
| PCB097 | NA | 400.67 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 100 | 50 - 150% | PASS | | |
| PCB099 | NA | 396.96 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 99 | 50 - 150% | PASS | | |
| PCB101 | NA | 411.08 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 103 | 50 - 150% | PASS | | |
| PCB105 | NA | 366.64 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 92 | 50 - 150% | PASS | | |
| PCB110 | NA | 385.04 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 96 | 50 - 150% | PASS | | |
| PCB114 | NA | 444.09 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 111 | 50 - 150% | PASS | | |
| PCB118 | NA | 393.68 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 98 | 50 - 150% | PASS | | |
| PCB119 | NA | 387.97 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 97 | 50 - 150% | PASS | | |
| PCB123 | NA | 409.56 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 102 | 50 - 150% | PASS | | |
| PCB126 | NA | 414.93 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 104 | 50 - 150% | PASS | | |
| PCB128 | NA | 376.84 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 94 | 50 - 150% | PASS | | |
| PCB137 | NA | 388.5 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 97 | 50 - 150% | PASS | | |
| PCB138 | NA | 391.42 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 98 | 50 - 150% | PASS | | |
| PCB141 | NA | 355.93 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 89 | 50 - 150% | PASS | | |



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CA ELAP #2769

PCB Congeners

QUALITY CONTROL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | SPIKE LEVEL | SOURCE RESULT | ACCURACY | | PRECISION | | QA CODE |
|-------------|----------|--------|------|-----|----------|-------------|---------------|----------|-----------|-----------|--------|---------|
| | | | | | | | | % | LIMITS | % | LIMITS | |
| PCB149 | NA | 365.31 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 91 | 50 - 150% | PASS | | |
| PCB151 | NA | 390.94 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 98 | 50 - 150% | PASS | | |
| PCB153 | NA | 387.14 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 97 | 50 - 150% | PASS | | |
| PCB156 | NA | 469.6 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 117 | 50 - 150% | PASS | | |
| PCB157 | NA | 437.96 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 109 | 50 - 150% | PASS | | |
| PCB158 | NA | 380.05 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 95 | 50 - 150% | PASS | | |
| PCB167 | NA | 380.68 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 95 | 50 - 150% | PASS | | |
| PCB168+132 | NA | 709.8 | 0.1 | 0.2 | ng/dry g | 800 | 0 | 89 | 50 - 150% | PASS | | |
| PCB169 | NA | 451.88 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 113 | 50 - 150% | PASS | | |
| PCB170 | NA | 415.89 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 104 | 50 - 150% | PASS | | |
| PCB174 | NA | 391.03 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 98 | 50 - 150% | PASS | | |
| PCB177 | NA | 397.12 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 99 | 50 - 150% | PASS | | |
| PCB180 | NA | 395.9 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 99 | 50 - 150% | PASS | | |
| PCB183 | NA | 371.76 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 93 | 50 - 150% | PASS | | |
| PCB187 | NA | 370.26 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 93 | 50 - 150% | PASS | | |
| PCB189 | NA | 418.7 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 105 | 50 - 150% | PASS | | |
| PCB194 | NA | 422.66 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 106 | 50 - 150% | PASS | | |
| PCB195 | NA | 392.33 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 98 | 50 - 150% | PASS | | |
| PCB199(200) | NA | 360.3 | 0.1 | 0.2 | ng/dry g | 400 | 0 | 90 | 50 - 150% | PASS | | |
| PCB201 | NA | 407.85 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 102 | 50 - 150% | PASS | | |
| PCB203 | NA | 407.3 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 102 | 50 - 150% | PASS | | |
| PCB206 | NA | 435.61 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 109 | 50 - 150% | PASS | | |
| PCB209 | NA | 416.23 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 104 | 50 - 150% | PASS | | |

Sample ID: 21733-BS2

B13-8382

Matrix: Sediment

Sampled: 10-Jul-13

11:04

Received: 13-Jul-13

Method: EPA 8270C

Batch ID: O-6003

Prepared: 15-Aug-13

Analyzed: 30-Aug-13

| | | | | | | | | | | | | | |
|--------|----|--------|------|-----|----------|-----|---|----|-----------|------|---|----|------|
| PCB003 | NA | 377.18 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 94 | 50 - 150% | PASS | 2 | 25 | PASS |
| PCB005 | NA | 368.77 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 92 | 50 - 150% | PASS | 1 | 25 | PASS |
| PCB008 | NA | 395.82 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 99 | 50 - 150% | PASS | 1 | 25 | PASS |
| PCB015 | NA | 394.69 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 99 | 50 - 150% | PASS | 3 | 25 | PASS |
| PCB018 | NA | 392.47 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 98 | 50 - 150% | PASS | 1 | 25 | PASS |
| PCB027 | NA | 361.7 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 90 | 50 - 150% | PASS | 1 | 25 | PASS |



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CA ELAP #2769

PCB Congeners

QUALITY CONTROL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | SPIKE LEVEL | SOURCE RESULT | ACCURACY | | PRECISION | | QA CODE | |
|-------------|----------|--------|------|-----|----------|-------------|---------------|----------|-----------|-----------|--------|---------|------|
| | | | | | | | | % | LIMITS | % | LIMITS | | |
| PCB028 | NA | 365.87 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 91 | 50 - 150% | PASS | 2 | 25 | PASS |
| PCB029 | NA | 351.95 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 88 | 50 - 150% | PASS | 4 | 25 | PASS |
| PCB031 | NA | 382.78 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 96 | 50 - 150% | PASS | 2 | 25 | PASS |
| PCB033 | NA | 375.92 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 94 | 50 - 150% | PASS | 2 | 25 | PASS |
| PCB037 | NA | 395.86 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 99 | 50 - 150% | PASS | 3 | 25 | PASS |
| PCB044 | NA | 388.24 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 97 | 50 - 150% | PASS | 2 | 25 | PASS |
| PCB049 | NA | 373.85 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 93 | 50 - 150% | PASS | 2 | 25 | PASS |
| PCB052 | NA | 379.46 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 95 | 50 - 150% | PASS | 2 | 25 | PASS |
| PCB056(060) | NA | 449.4 | 0.1 | 0.2 | ng/dry g | 400 | 0 | 112 | 50 - 150% | PASS | 2 | 25 | PASS |
| PCB066 | NA | 400.13 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 100 | 50 - 150% | PASS | 0 | 25 | PASS |
| PCB070 | NA | 418.27 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 105 | 50 - 150% | PASS | 0 | 25 | PASS |
| PCB074 | NA | 416.54 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 104 | 50 - 150% | PASS | 3 | 25 | PASS |
| PCB077 | NA | 404.58 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 101 | 50 - 150% | PASS | 4 | 25 | PASS |
| PCB081 | NA | 389.82 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 97 | 50 - 150% | PASS | 2 | 25 | PASS |
| PCB087 | NA | 381.65 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 95 | 50 - 150% | PASS | 1 | 25 | PASS |
| PCB095 | NA | 373.81 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 93 | 50 - 150% | PASS | 1 | 25 | PASS |
| PCB097 | NA | 394.2 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 99 | 50 - 150% | PASS | 1 | 25 | PASS |
| PCB099 | NA | 391.06 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 98 | 50 - 150% | PASS | 1 | 25 | PASS |
| PCB101 | NA | 401 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 100 | 50 - 150% | PASS | 3 | 25 | PASS |
| PCB105 | NA | 374.06 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 94 | 50 - 150% | PASS | 2 | 25 | PASS |
| PCB110 | NA | 377.56 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 94 | 50 - 150% | PASS | 2 | 25 | PASS |
| PCB114 | NA | 425.59 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 106 | 50 - 150% | PASS | 5 | 25 | PASS |
| PCB118 | NA | 389.93 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 97 | 50 - 150% | PASS | 1 | 25 | PASS |
| PCB119 | NA | 385.94 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 96 | 50 - 150% | PASS | 1 | 25 | PASS |
| PCB123 | NA | 406.75 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 102 | 50 - 150% | PASS | 0 | 25 | PASS |
| PCB126 | NA | 408.05 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 102 | 50 - 150% | PASS | 2 | 25 | PASS |
| PCB128 | NA | 356.66 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 89 | 50 - 150% | PASS | 5 | 25 | PASS |
| PCB137 | NA | 397.02 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 99 | 50 - 150% | PASS | 2 | 25 | PASS |
| PCB138 | NA | 389.13 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 97 | 50 - 150% | PASS | 1 | 25 | PASS |
| PCB141 | NA | 357.76 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 89 | 50 - 150% | PASS | 0 | 25 | PASS |
| PCB149 | NA | 366.58 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 92 | 50 - 150% | PASS | 1 | 25 | PASS |



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CA ELAP #2769

PCB Congeners

QUALITY CONTROL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | SPIKE LEVEL | SOURCE RESULT | ACCURACY | | PRECISION | | QA CODE | |
|-------------|----------|--------|------|-----|----------|-------------|---------------|----------|-----------|-----------|--------|---------|------|
| | | | | | | | | % | LIMITS | % | LIMITS | | |
| PCB151 | NA | 381.23 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 95 | 50 - 150% | PASS | 3 | 25 | PASS |
| PCB153 | NA | 388.38 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 97 | 50 - 150% | PASS | 0 | 25 | PASS |
| PCB156 | NA | 481.4 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 120 | 50 - 150% | PASS | 3 | 25 | PASS |
| PCB157 | NA | 444.88 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 111 | 50 - 150% | PASS | 2 | 25 | PASS |
| PCB158 | NA | 375.63 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 94 | 50 - 150% | PASS | 1 | 25 | PASS |
| PCB167 | NA | 393.18 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 98 | 50 - 150% | PASS | 3 | 25 | PASS |
| PCB168+132 | NA | 722.5 | 0.1 | 0.2 | ng/dry g | 800 | 0 | 90 | 50 - 150% | PASS | 1 | 25 | PASS |
| PCB169 | NA | 457.2 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 114 | 50 - 150% | PASS | 1 | 25 | PASS |
| PCB170 | NA | 408.55 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 102 | 50 - 150% | PASS | 2 | 25 | PASS |
| PCB174 | NA | 392.61 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 98 | 50 - 150% | PASS | 0 | 25 | PASS |
| PCB177 | NA | 402.32 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 101 | 50 - 150% | PASS | 2 | 25 | PASS |
| PCB180 | NA | 398.74 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 100 | 50 - 150% | PASS | 1 | 25 | PASS |
| PCB183 | NA | 379.58 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 95 | 50 - 150% | PASS | 2 | 25 | PASS |
| PCB187 | NA | 380.02 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 95 | 50 - 150% | PASS | 2 | 25 | PASS |
| PCB189 | NA | 415.23 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 104 | 50 - 150% | PASS | 1 | 25 | PASS |
| PCB194 | NA | 430.62 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 108 | 50 - 150% | PASS | 2 | 25 | PASS |
| PCB195 | NA | 393.59 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 98 | 50 - 150% | PASS | 0 | 25 | PASS |
| PCB199(200) | NA | 363.6 | 0.1 | 0.2 | ng/dry g | 400 | 0 | 91 | 50 - 150% | PASS | 1 | 25 | PASS |
| PCB201 | NA | 420.22 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 105 | 50 - 150% | PASS | 3 | 25 | PASS |
| PCB203 | NA | 410.63 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 103 | 50 - 150% | PASS | 1 | 25 | PASS |
| PCB206 | NA | 440.29 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 110 | 50 - 150% | PASS | 1 | 25 | PASS |
| PCB209 | NA | 418.79 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 105 | 50 - 150% | PASS | 1 | 25 | PASS |

Sample ID: 21744-MS1

B13-8308

Matrix: Sediment

Sampled: 11-Jul-13

17:06

Received: 13-Jul-13

Method: EPA 8270C

Batch ID: O-6003

Prepared: 15-Aug-13

Analyzed: 30-Aug-13

| | | | | | | | | | | | | | |
|--------|----|-------|------|-----|----------|-------|---|----|-----------|------|--|--|--|
| PCB003 | NA | 43.46 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 91 | 50 - 150% | PASS | | | |
| PCB005 | NA | 42.16 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 88 | 50 - 150% | PASS | | | |
| PCB008 | NA | 45.66 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 95 | 50 - 150% | PASS | | | |
| PCB015 | NA | 46.13 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 96 | 50 - 150% | PASS | | | |
| PCB018 | NA | 43.74 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 91 | 50 - 150% | PASS | | | |
| PCB027 | NA | 42.18 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 88 | 50 - 150% | PASS | | | |
| PCB028 | NA | 42.48 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 89 | 50 - 150% | PASS | | | |



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CA ELAP #2769

PCB Congeners

QUALITY CONTROL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | SPIKE LEVEL | SOURCE RESULT | ACCURACY | | PRECISION | | QA CODE |
|-------------|----------|--------|------|-----|----------|-------------|---------------|----------|-----------|-----------|--------|---------|
| | | | | | | | | % | LIMITS | % | LIMITS | |
| PCB029 | NA | 44.23 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 92 | 50 - 150% | PASS | | |
| PCB031 | NA | 47.32 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 99 | 50 - 150% | PASS | | |
| PCB033 | NA | 46.42 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 97 | 50 - 150% | PASS | | |
| PCB037 | NA | 48.31 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 101 | 50 - 150% | PASS | | |
| PCB044 | NA | 46.11 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 96 | 50 - 150% | PASS | | |
| PCB049 | NA | 45.57 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 95 | 50 - 150% | PASS | | |
| PCB052 | NA | 45.7 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 96 | 50 - 150% | PASS | | |
| PCB056(060) | NA | 49.5 | 0.1 | 0.2 | ng/dry g | 47.8 | 0 | 104 | 50 - 150% | PASS | | |
| PCB066 | NA | 45.55 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 95 | 50 - 150% | PASS | | |
| PCB070 | NA | 46.35 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 97 | 50 - 150% | PASS | | |
| PCB074 | NA | 49.15 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 103 | 50 - 150% | PASS | | |
| PCB077 | NA | 48.13 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 101 | 50 - 150% | PASS | | |
| PCB081 | NA | 45.78 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 96 | 50 - 150% | PASS | | |
| PCB087 | NA | 42.92 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 90 | 50 - 150% | PASS | | |
| PCB095 | NA | 40.41 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 84 | 50 - 150% | PASS | | |
| PCB097 | NA | 47.82 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 100 | 50 - 150% | PASS | | |
| PCB099 | NA | 45.43 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 95 | 50 - 150% | PASS | | |
| PCB101 | NA | 45.7 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 96 | 50 - 150% | PASS | | |
| PCB105 | NA | 43.13 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 90 | 50 - 150% | PASS | | |
| PCB110 | NA | 42.45 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 89 | 50 - 150% | PASS | | |
| PCB114 | NA | 51.49 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 108 | 50 - 150% | PASS | | |
| PCB118 | NA | 45.21 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 95 | 50 - 150% | PASS | | |
| PCB119 | NA | 46.16 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 96 | 50 - 150% | PASS | | |
| PCB123 | NA | 47.91 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 100 | 50 - 150% | PASS | | |
| PCB126 | NA | 55.6 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 116 | 50 - 150% | PASS | | |
| PCB128 | NA | 43.48 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 91 | 50 - 150% | PASS | | |
| PCB137 | NA | 49.61 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 104 | 50 - 150% | PASS | | |
| PCB138 | NA | 48.02 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 100 | 50 - 150% | PASS | | |
| PCB141 | NA | 42.38 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 89 | 50 - 150% | PASS | | |
| PCB149 | NA | 39.55 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 83 | 50 - 150% | PASS | | |
| PCB151 | NA | 43.9 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 92 | 50 - 150% | PASS | | |



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CA ELAP #2769

PCB Congeners

QUALITY CONTROL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | SPIKE LEVEL | SOURCE RESULT | ACCURACY | | PRECISION | | QA CODE |
|-------------|----------|--------|------|-----|----------|-------------|---------------|----------|-----------|-----------|--------|---------|
| | | | | | | | | % | LIMITS | % | LIMITS | |
| PCB153 | NA | 48.61 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 102 | 50 - 150% | PASS | | |
| PCB156 | NA | 52.61 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 110 | 50 - 150% | PASS | | |
| PCB157 | NA | 47.77 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 100 | 50 - 150% | PASS | | |
| PCB158 | NA | 45.74 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 96 | 50 - 150% | PASS | | |
| PCB167 | NA | 47.4 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 99 | 50 - 150% | PASS | | |
| PCB168+132 | NA | 82.8 | 0.1 | 0.2 | ng/dry g | 95.7 | 0 | 87 | 50 - 150% | PASS | | |
| PCB169 | NA | 56.43 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 118 | 50 - 150% | PASS | | |
| PCB170 | NA | 48.96 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 102 | 50 - 150% | PASS | | |
| PCB174 | NA | 47.03 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 98 | 50 - 150% | PASS | | |
| PCB177 | NA | 45.83 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 96 | 50 - 150% | PASS | | |
| PCB180 | NA | 50.42 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 105 | 50 - 150% | PASS | | |
| PCB183 | NA | 45.71 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 96 | 50 - 150% | PASS | | |
| PCB187 | NA | 45.51 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 95 | 50 - 150% | PASS | | |
| PCB189 | NA | 53.83 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 113 | 50 - 150% | PASS | | |
| PCB194 | NA | 51.52 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 108 | 50 - 150% | PASS | | |
| PCB195 | NA | 50.43 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 105 | 50 - 150% | PASS | | |
| PCB199(200) | NA | 39.8 | 0.1 | 0.2 | ng/dry g | 47.8 | 0 | 83 | 50 - 150% | PASS | | |
| PCB201 | NA | 48.57 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 102 | 50 - 150% | PASS | | |
| PCB203 | NA | 50.8 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 106 | 50 - 150% | PASS | | |
| PCB206 | NA | 51.99 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 109 | 50 - 150% | PASS | | |
| PCB209 | NA | 50.68 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 106 | 50 - 150% | PASS | | |

Sample ID: 21744-MS2

B13-8308

Method: EPA 8270C

Matrix: Sediment

Batch ID: O-6003

Sampled: 11-Jul-13

17:06

Received: 13-Jul-13

Prepared: 15-Aug-13

Analyzed: 30-Aug-13

| | | | | | | | | | | | | | |
|--------|----|-------|------|-----|----------|-------|---|----|-----------|------|---|----|------|
| PCB003 | NA | 43.28 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 90 | 50 - 150% | PASS | 1 | 25 | PASS |
| PCB005 | NA | 45.78 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 96 | 50 - 150% | PASS | 9 | 25 | PASS |
| PCB008 | NA | 45.97 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 96 | 50 - 150% | PASS | 1 | 25 | PASS |
| PCB015 | NA | 47.53 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 99 | 50 - 150% | PASS | 3 | 25 | PASS |
| PCB018 | NA | 44.49 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 93 | 50 - 150% | PASS | 2 | 25 | PASS |
| PCB027 | NA | 43.01 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 90 | 50 - 150% | PASS | 2 | 25 | PASS |
| PCB028 | NA | 43.56 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 91 | 50 - 150% | PASS | 2 | 25 | PASS |
| PCB029 | NA | 45.98 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 96 | 50 - 150% | PASS | 4 | 25 | PASS |



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CA ELAP #2769

PCB Congeners

QUALITY CONTROL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | SPIKE LEVEL | SOURCE RESULT | ACCURACY | | PRECISION | | QA CODE | |
|-------------|----------|--------|------|-----|----------|-------------|---------------|----------|-----------|-----------|--------|---------|------|
| | | | | | | | | % | LIMITS | % | LIMITS | | |
| PCB031 | NA | 47.94 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 100 | 50 - 150% | PASS | 1 | 25 | PASS |
| PCB033 | NA | 47.09 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 98 | 50 - 150% | PASS | 1 | 25 | PASS |
| PCB037 | NA | 49.57 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 104 | 50 - 150% | PASS | 3 | 25 | PASS |
| PCB044 | NA | 47.43 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 99 | 50 - 150% | PASS | 3 | 25 | PASS |
| PCB049 | NA | 46.59 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 97 | 50 - 150% | PASS | 2 | 25 | PASS |
| PCB052 | NA | 45.73 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 96 | 50 - 150% | PASS | 0 | 25 | PASS |
| PCB056(060) | NA | 50.8 | 0.1 | 0.2 | ng/dry g | 47.8 | 0 | 106 | 50 - 150% | PASS | 2 | 25 | PASS |
| PCB066 | NA | 47.29 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 99 | 50 - 150% | PASS | 4 | 25 | PASS |
| PCB070 | NA | 47.37 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 99 | 50 - 150% | PASS | 2 | 25 | PASS |
| PCB074 | NA | 50.5 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 106 | 50 - 150% | PASS | 3 | 25 | PASS |
| PCB077 | NA | 48.46 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 101 | 50 - 150% | PASS | 0 | 25 | PASS |
| PCB081 | NA | 46.8 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 98 | 50 - 150% | PASS | 2 | 25 | PASS |
| PCB087 | NA | 44.83 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 94 | 50 - 150% | PASS | 4 | 25 | PASS |
| PCB095 | NA | 41.8 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 87 | 50 - 150% | PASS | 4 | 25 | PASS |
| PCB097 | NA | 48.92 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 102 | 50 - 150% | PASS | 2 | 25 | PASS |
| PCB099 | NA | 47.05 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 98 | 50 - 150% | PASS | 3 | 25 | PASS |
| PCB101 | NA | 47.34 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 99 | 50 - 150% | PASS | 3 | 25 | PASS |
| PCB105 | NA | 45.22 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 95 | 50 - 150% | PASS | 5 | 25 | PASS |
| PCB110 | NA | 43.28 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 90 | 50 - 150% | PASS | 1 | 25 | PASS |
| PCB114 | NA | 52.53 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 110 | 50 - 150% | PASS | 2 | 25 | PASS |
| PCB118 | NA | 46.14 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 96 | 50 - 150% | PASS | 1 | 25 | PASS |
| PCB119 | NA | 47.16 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 99 | 50 - 150% | PASS | 3 | 25 | PASS |
| PCB123 | NA | 49.47 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 103 | 50 - 150% | PASS | 3 | 25 | PASS |
| PCB126 | NA | 55.96 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 117 | 50 - 150% | PASS | 1 | 25 | PASS |
| PCB128 | NA | 46.54 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 97 | 50 - 150% | PASS | 6 | 25 | PASS |
| PCB137 | NA | 51.44 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 108 | 50 - 150% | PASS | 4 | 25 | PASS |
| PCB138 | NA | 50.39 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 105 | 50 - 150% | PASS | 5 | 25 | PASS |
| PCB141 | NA | 44.79 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 94 | 50 - 150% | PASS | 5 | 25 | PASS |
| PCB149 | NA | 40.52 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 85 | 50 - 150% | PASS | 2 | 25 | PASS |
| PCB151 | NA | 45.36 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 95 | 50 - 150% | PASS | 3 | 25 | PASS |
| PCB153 | NA | 50.14 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 105 | 50 - 150% | PASS | 3 | 25 | PASS |



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CA ELAP #2769

PCB Congeners

QUALITY CONTROL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | SPIKE LEVEL | SOURCE RESULT | ACCURACY | | PRECISION | | QA CODE |
|-------------|----------|--------|------|-----|----------|-------------|---------------|----------|-----------|-----------|--------|---------|
| | | | | | | | | % | LIMITS | % | LIMITS | |
| PCB156 | NA | 53.38 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 112 | 50 - 150% | PASS | 2 25 | PASS |
| PCB157 | NA | 49.64 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 104 | 50 - 150% | PASS | 4 25 | PASS |
| PCB158 | NA | 47.48 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 99 | 50 - 150% | PASS | 3 25 | PASS |
| PCB167 | NA | 46.98 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 98 | 50 - 150% | PASS | 1 25 | PASS |
| PCB168+132 | NA | 85.9 | 0.1 | 0.2 | ng/dry g | 95.7 | 0 | 90 | 50 - 150% | PASS | 3 25 | PASS |
| PCB169 | NA | 58.56 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 122 | 50 - 150% | PASS | 3 25 | PASS |
| PCB170 | NA | 50 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 105 | 50 - 150% | PASS | 3 25 | PASS |
| PCB174 | NA | 49.1 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 103 | 50 - 150% | PASS | 5 25 | PASS |
| PCB177 | NA | 47.88 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 100 | 50 - 150% | PASS | 4 25 | PASS |
| PCB180 | NA | 51.67 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 108 | 50 - 150% | PASS | 3 25 | PASS |
| PCB183 | NA | 47.21 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 99 | 50 - 150% | PASS | 3 25 | PASS |
| PCB187 | NA | 46.84 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 98 | 50 - 150% | PASS | 3 25 | PASS |
| PCB189 | NA | 54.62 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 114 | 50 - 150% | PASS | 1 25 | PASS |
| PCB194 | NA | 52.62 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 110 | 50 - 150% | PASS | 2 25 | PASS |
| PCB195 | NA | 50.79 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 106 | 50 - 150% | PASS | 1 25 | PASS |
| PCB199(200) | NA | 40.7 | 0.1 | 0.2 | ng/dry g | 47.8 | 0 | 85 | 50 - 150% | PASS | 2 25 | PASS |
| PCB201 | NA | 50.58 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 106 | 50 - 150% | PASS | 4 25 | PASS |
| PCB203 | NA | 52.38 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 109 | 50 - 150% | PASS | 3 25 | PASS |
| PCB206 | NA | 52.84 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 110 | 50 - 150% | PASS | 1 25 | PASS |
| PCB209 | NA | 51.29 | 0.05 | 0.1 | ng/dry g | 47.84 | 0 | 107 | 50 - 150% | PASS | 1 25 | PASS |

Sample ID: 21744-R2

B13-8308

Method: EPA 8270C

Matrix: Sediment

Batch ID: O-6003

Sampled: 11-Jul-13

17:06

Prepared: 15-Aug-13

Received: 13-Jul-13

Analyzed: 30-Aug-13

| | | | | | | | | | | | | |
|--------|----|----|------|-----|----------|--|--|--|--|--|------|------|
| PCB003 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | 0 25 | PASS |
| PCB005 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | 0 25 | PASS |
| PCB008 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | 0 25 | PASS |
| PCB015 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | 0 25 | PASS |
| PCB018 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | 0 25 | PASS |
| PCB027 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | 0 25 | PASS |
| PCB028 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | 0 25 | PASS |
| PCB029 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | 0 25 | PASS |
| PCB031 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | 0 25 | PASS |



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CA ELAP #2769

PCB Congeners

QUALITY CONTROL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | SPIKE LEVEL | SOURCE RESULT | ACCURACY | | PRECISION | | QA CODE |
|-------------|----------|--------|------|-----|----------|----------------|------------------|----------|--------|-----------|--------|---------|
| | | | | | | | | % | LIMITS | % | LIMITS | |
| PCB033 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS |
| PCB037 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS |
| PCB044 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS |
| PCB049 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS |
| PCB052 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS |
| PCB056(060) | NA | ND | 0.1 | 0.2 | ng/dry g | | | | | 0 | 25 | PASS |
| PCB066 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS |
| PCB070 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS |
| PCB074 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS |
| PCB077 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS |
| PCB081 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS |
| PCB087 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS |
| PCB095 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS |
| PCB097 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS |
| PCB099 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS |
| PCB101 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS |
| PCB105 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS |
| PCB110 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS |
| PCB114 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS |
| PCB118 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS |
| PCB119 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS |
| PCB123 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS |
| PCB126 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS |
| PCB128 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS |
| PCB137 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS |
| PCB138 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS |
| PCB141 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS |
| PCB149 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS |
| PCB151 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS |
| PCB153 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS |
| PCB156 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS |



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CA ELAP #2769

PCB Congeners

QUALITY CONTROL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | SPIKE LEVEL | SOURCE RESULT | ACCURACY | | PRECISION | | QA CODE |
|-------------|----------|--------|------|-----|----------|-------------|---------------|----------|--------|-----------|--------|---------|
| | | | | | | | | % | LIMITS | % | LIMITS | |
| PCB157 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS |
| PCB158 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS |
| PCB167 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS |
| PCB168+132 | NA | ND | 0.1 | 0.2 | ng/dry g | | | | | 0 | 25 | PASS |
| PCB169 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS |
| PCB170 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS |
| PCB174 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS |
| PCB177 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS |
| PCB180 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS |
| PCB183 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS |
| PCB187 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS |
| PCB189 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS |
| PCB194 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS |
| PCB195 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS |
| PCB199(200) | NA | ND | 0.1 | 0.2 | ng/dry g | | | | | 0 | 25 | PASS |
| PCB201 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS |
| PCB203 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS |
| PCB206 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS |
| PCB209 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS |

Sample ID: 21753-MS1

B13-8397

Method: EPA 8270C

Matrix: Sediment

Batch ID: O-6001

Sampled: 12-Jul-13

11:20

Received: 13-Jul-13

Prepared: 09-Aug-13

Analyzed: 30-Aug-13

| | | | | | | | | | | |
|--------|----|-------|------|-----|----------|-------|---|----|-----------|------|
| PCB003 | NA | 65.08 | 0.05 | 0.1 | ng/dry g | 72.02 | 0 | 90 | 50 - 150% | PASS |
| PCB005 | NA | 69.59 | 0.05 | 0.1 | ng/dry g | 72.02 | 0 | 97 | 50 - 150% | PASS |
| PCB008 | NA | 67.13 | 0.05 | 0.1 | ng/dry g | 72.02 | 0 | 93 | 50 - 150% | PASS |
| PCB015 | NA | 69.81 | 0.05 | 0.1 | ng/dry g | 72.02 | 0 | 97 | 50 - 150% | PASS |
| PCB018 | NA | 66.39 | 0.05 | 0.1 | ng/dry g | 72.02 | 0 | 92 | 50 - 150% | PASS |
| PCB027 | NA | 61.84 | 0.05 | 0.1 | ng/dry g | 72.02 | 0 | 86 | 50 - 150% | PASS |
| PCB028 | NA | 65.73 | 0.05 | 0.1 | ng/dry g | 72.02 | 0 | 91 | 50 - 150% | PASS |
| PCB029 | NA | 68.34 | 0.05 | 0.1 | ng/dry g | 72.02 | 0 | 95 | 50 - 150% | PASS |
| PCB031 | NA | 71.16 | 0.05 | 0.1 | ng/dry g | 72.02 | 0 | 99 | 50 - 150% | PASS |
| PCB033 | NA | 69.38 | 0.05 | 0.1 | ng/dry g | 72.02 | 0 | 96 | 50 - 150% | PASS |



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QUALITY CONTROL REPORT

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|-------------|----------|--------|------|-----|----------|-------------|---------------|----------|-----------|-----------|--------|---------|
| | | | | | | | | % | LIMITS | % | LIMITS | |
| PCB037 | NA | 73.71 | 0.05 | 0.1 | ng/dry g | 72.02 | 0 | 102 | 50 - 150% | PASS | | |
| PCB044 | NA | 69.6 | 0.05 | 0.1 | ng/dry g | 72.02 | 0.15 | 96 | 50 - 150% | PASS | | |
| PCB049 | NA | 69.69 | 0.05 | 0.1 | ng/dry g | 72.02 | 1.05 | 95 | 50 - 150% | PASS | | |
| PCB052 | NA | 69.81 | 0.05 | 0.1 | ng/dry g | 72.02 | 0.2 | 97 | 50 - 150% | PASS | | |
| PCB056(060) | NA | 76.5 | 0.1 | 0.2 | ng/dry g | 72 | 0 | 106 | 50 - 150% | PASS | | |
| PCB066 | NA | 71.27 | 0.05 | 0.1 | ng/dry g | 72.02 | 0.5 | 98 | 50 - 150% | PASS | | |
| PCB070 | NA | 72.27 | 0.05 | 0.1 | ng/dry g | 72.02 | 0.45 | 100 | 50 - 150% | PASS | | |
| PCB074 | NA | 75.96 | 0.05 | 0.1 | ng/dry g | 72.02 | 0.15 | 105 | 50 - 150% | PASS | | |
| PCB077 | NA | 75.24 | 0.05 | 0.1 | ng/dry g | 72.02 | 0 | 104 | 50 - 150% | PASS | | |
| PCB081 | NA | 72.2 | 0.05 | 0.1 | ng/dry g | 72.02 | 0 | 100 | 50 - 150% | PASS | | |
| PCB087 | NA | 68.16 | 0.05 | 0.1 | ng/dry g | 72.02 | 0.15 | 94 | 50 - 150% | PASS | | |
| PCB095 | NA | 63.47 | 0.05 | 0.1 | ng/dry g | 72.02 | 0.65 | 87 | 50 - 150% | PASS | | |
| PCB097 | NA | 74.4 | 0.05 | 0.1 | ng/dry g | 72.02 | 0 | 103 | 50 - 150% | PASS | | |
| PCB099 | NA | 71.61 | 0.05 | 0.1 | ng/dry g | 72.02 | 0.75 | 98 | 50 - 150% | PASS | | |
| PCB101 | NA | 72.84 | 0.05 | 0.1 | ng/dry g | 72.02 | 1.25 | 99 | 50 - 150% | PASS | | |
| PCB105 | NA | 67.41 | 0.05 | 0.1 | ng/dry g | 72.02 | 0 | 94 | 50 - 150% | PASS | | |
| PCB110 | NA | 68 | 0.05 | 0.1 | ng/dry g | 72.02 | 0.85 | 93 | 50 - 150% | PASS | | |
| PCB114 | NA | 80.86 | 0.05 | 0.1 | ng/dry g | 72.02 | 0 | 112 | 50 - 150% | PASS | | |
| PCB118 | NA | 70.83 | 0.05 | 0.1 | ng/dry g | 72.02 | 0.7 | 97 | 50 - 150% | PASS | | |
| PCB119 | NA | 71.36 | 0.05 | 0.1 | ng/dry g | 72.02 | 0 | 99 | 50 - 150% | PASS | | |
| PCB123 | NA | 75.98 | 0.05 | 0.1 | ng/dry g | 72.02 | 0 | 105 | 50 - 150% | PASS | | |
| PCB126 | NA | 83.73 | 0.05 | 0.1 | ng/dry g | 72.02 | 0 | 116 | 50 - 150% | PASS | | |
| PCB128 | NA | 73.87 | 0.05 | 0.1 | ng/dry g | 72.02 | 0 | 103 | 50 - 150% | PASS | | |
| PCB137 | NA | 75.39 | 0.05 | 0.1 | ng/dry g | 72.02 | 0 | 105 | 50 - 150% | PASS | | |
| PCB138 | NA | 77.49 | 0.05 | 0.1 | ng/dry g | 72.02 | 1.6 | 105 | 50 - 150% | PASS | | |
| PCB141 | NA | 67.8 | 0.05 | 0.1 | ng/dry g | 72.02 | 0 | 94 | 50 - 150% | PASS | | |
| PCB149 | NA | 62.97 | 0.05 | 0.1 | ng/dry g | 72.02 | 1.25 | 86 | 50 - 150% | PASS | | |
| PCB151 | NA | 69.07 | 0.05 | 0.1 | ng/dry g | 72.02 | 0.4 | 95 | 50 - 150% | PASS | | |
| PCB153 | NA | 75.45 | 0.05 | 0.1 | ng/dry g | 72.02 | 1.95 | 102 | 50 - 150% | PASS | | |
| PCB156 | NA | 82.34 | 0.05 | 0.1 | ng/dry g | 72.02 | 0 | 114 | 50 - 150% | PASS | | |
| PCB157 | NA | 73.93 | 0.05 | 0.1 | ng/dry g | 72.02 | 0 | 103 | 50 - 150% | PASS | | |



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CA ELAP #2769

PCB Congeners

QUALITY CONTROL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | SPIKE LEVEL | SOURCE RESULT | ACCURACY | | PRECISION | | QA CODE |
|-------------|----------|--------|------|-----|----------|-------------|---------------|----------|-----------|-----------|--------|---------|
| | | | | | | | | % | LIMITS | % | LIMITS | |
| PCB158 | NA | 70.96 | 0.05 | 0.1 | ng/dry g | 72.02 | 0 | 99 | 50 - 150% | PASS | | |
| PCB167 | NA | 70.27 | 0.05 | 0.1 | ng/dry g | 72.02 | 0 | 98 | 50 - 150% | PASS | | |
| PCB168+132 | NA | 129.3 | 0.1 | 0.2 | ng/dry g | 144 | 0.2 | 90 | 50 - 150% | PASS | | |
| PCB169 | NA | 85.73 | 0.05 | 0.1 | ng/dry g | 72.02 | 0 | 119 | 50 - 150% | PASS | | |
| PCB170 | NA | 79.14 | 0.05 | 0.1 | ng/dry g | 72.02 | 0 | 110 | 50 - 150% | PASS | | |
| PCB174 | NA | 75.33 | 0.05 | 0.1 | ng/dry g | 72.02 | 0.7 | 104 | 50 - 150% | PASS | | |
| PCB177 | NA | 71.59 | 0.05 | 0.1 | ng/dry g | 72.02 | 0 | 99 | 50 - 150% | PASS | | |
| PCB180 | NA | 78.92 | 0.05 | 0.1 | ng/dry g | 72.02 | 1.3 | 108 | 50 - 150% | PASS | | |
| PCB183 | NA | 72.14 | 0.05 | 0.1 | ng/dry g | 72.02 | 0.45 | 100 | 50 - 150% | PASS | | |
| PCB187 | NA | 72.75 | 0.05 | 0.1 | ng/dry g | 72.02 | 0.8 | 100 | 50 - 150% | PASS | | |
| PCB189 | NA | 85.4 | 0.05 | 0.1 | ng/dry g | 72.02 | 0 | 119 | 50 - 150% | PASS | | |
| PCB194 | NA | 83.53 | 0.05 | 0.1 | ng/dry g | 72.02 | 0 | 116 | 50 - 150% | PASS | | |
| PCB195 | NA | 79.1 | 0.05 | 0.1 | ng/dry g | 72.02 | 0 | 110 | 50 - 150% | PASS | | |
| PCB199(200) | NA | 62.1 | 0.1 | 0.2 | ng/dry g | 72 | 0 | 86 | 50 - 150% | PASS | | |
| PCB201 | NA | 77.39 | 0.05 | 0.1 | ng/dry g | 72.02 | 0 | 107 | 50 - 150% | PASS | | |
| PCB203 | NA | 81.13 | 0.05 | 0.1 | ng/dry g | 72.02 | 0 | 113 | 50 - 150% | PASS | | |
| PCB206 | NA | 83.73 | 0.05 | 0.1 | ng/dry g | 72.02 | 0 | 116 | 50 - 150% | PASS | | |
| PCB209 | NA | 79.03 | 0.05 | 0.1 | ng/dry g | 72.02 | 0 | 110 | 50 - 150% | PASS | | |

Sample ID: 21753-MS2

B13-8397

Method: EPA 8270C

Matrix: Sediment

Batch ID: O-6001

Sampled: 12-Jul-13

11:20

Received: 13-Jul-13

Prepared: 09-Aug-13

Analyzed: 30-Aug-13

| | | | | | | | | | | | | | |
|--------|----|-------|------|-----|----------|-------|---|-----|-----------|------|---|----|------|
| PCB003 | NA | 66.23 | 0.05 | 0.1 | ng/dry g | 72.02 | 0 | 92 | 50 - 150% | PASS | 2 | 25 | PASS |
| PCB005 | NA | 66.11 | 0.05 | 0.1 | ng/dry g | 72.02 | 0 | 92 | 50 - 150% | PASS | 5 | 25 | PASS |
| PCB008 | NA | 68.5 | 0.05 | 0.1 | ng/dry g | 72.02 | 0 | 95 | 50 - 150% | PASS | 2 | 25 | PASS |
| PCB015 | NA | 71.99 | 0.05 | 0.1 | ng/dry g | 72.02 | 0 | 100 | 50 - 150% | PASS | 3 | 25 | PASS |
| PCB018 | NA | 67.12 | 0.05 | 0.1 | ng/dry g | 72.02 | 0 | 93 | 50 - 150% | PASS | 1 | 25 | PASS |
| PCB027 | NA | 64.85 | 0.05 | 0.1 | ng/dry g | 72.02 | 0 | 90 | 50 - 150% | PASS | 5 | 25 | PASS |
| PCB028 | NA | 65.48 | 0.05 | 0.1 | ng/dry g | 72.02 | 0 | 91 | 50 - 150% | PASS | 0 | 25 | PASS |
| PCB029 | NA | 68.5 | 0.05 | 0.1 | ng/dry g | 72.02 | 0 | 95 | 50 - 150% | PASS | 0 | 25 | PASS |
| PCB031 | NA | 71.02 | 0.05 | 0.1 | ng/dry g | 72.02 | 0 | 99 | 50 - 150% | PASS | 0 | 25 | PASS |
| PCB033 | NA | 69.18 | 0.05 | 0.1 | ng/dry g | 72.02 | 0 | 96 | 50 - 150% | PASS | 0 | 25 | PASS |
| PCB037 | NA | 73.09 | 0.05 | 0.1 | ng/dry g | 72.02 | 0 | 101 | 50 - 150% | PASS | 1 | 25 | PASS |



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CA ELAP #2769

PCB Congeners

QUALITY CONTROL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | SPIKE LEVEL | SOURCE RESULT | ACCURACY | | PRECISION | | QA CODE | |
|-------------|----------|--------|------|-----|----------|-------------|---------------|----------|-----------|-----------|--------|---------|------|
| | | | | | | | | % | LIMITS | % | LIMITS | | |
| PCB044 | NA | 68.73 | 0.05 | 0.1 | ng/dry g | 72.02 | 0.15 | 95 | 50 - 150% | PASS | 1 | 25 | PASS |
| PCB049 | NA | 68.78 | 0.05 | 0.1 | ng/dry g | 72.02 | 1.05 | 94 | 50 - 150% | PASS | 1 | 25 | PASS |
| PCB052 | NA | 68.91 | 0.05 | 0.1 | ng/dry g | 72.02 | 0.2 | 95 | 50 - 150% | PASS | 2 | 25 | PASS |
| PCB056(060) | NA | 76.2 | 0.1 | 0.2 | ng/dry g | 72 | 0 | 106 | 50 - 150% | PASS | 0 | 25 | PASS |
| PCB066 | NA | 69.35 | 0.05 | 0.1 | ng/dry g | 72.02 | 0.5 | 96 | 50 - 150% | PASS | 2 | 25 | PASS |
| PCB070 | NA | 70.25 | 0.05 | 0.1 | ng/dry g | 72.02 | 0.45 | 97 | 50 - 150% | PASS | 3 | 25 | PASS |
| PCB074 | NA | 74.5 | 0.05 | 0.1 | ng/dry g | 72.02 | 0.15 | 103 | 50 - 150% | PASS | 2 | 25 | PASS |
| PCB077 | NA | 72.44 | 0.05 | 0.1 | ng/dry g | 72.02 | 0 | 101 | 50 - 150% | PASS | 3 | 25 | PASS |
| PCB081 | NA | 70.25 | 0.05 | 0.1 | ng/dry g | 72.02 | 0 | 98 | 50 - 150% | PASS | 2 | 25 | PASS |
| PCB087 | NA | 66.2 | 0.05 | 0.1 | ng/dry g | 72.02 | 0.15 | 92 | 50 - 150% | PASS | 2 | 25 | PASS |
| PCB095 | NA | 60.83 | 0.05 | 0.1 | ng/dry g | 72.02 | 0.65 | 84 | 50 - 150% | PASS | 4 | 25 | PASS |
| PCB097 | NA | 72.59 | 0.05 | 0.1 | ng/dry g | 72.02 | 0 | 101 | 50 - 150% | PASS | 2 | 25 | PASS |
| PCB099 | NA | 69.5 | 0.05 | 0.1 | ng/dry g | 72.02 | 0.75 | 95 | 50 - 150% | PASS | 3 | 25 | PASS |
| PCB101 | NA | 71.21 | 0.05 | 0.1 | ng/dry g | 72.02 | 1.25 | 97 | 50 - 150% | PASS | 2 | 25 | PASS |
| PCB105 | NA | 67.24 | 0.05 | 0.1 | ng/dry g | 72.02 | 0 | 93 | 50 - 150% | PASS | 1 | 25 | PASS |
| PCB110 | NA | 65.26 | 0.05 | 0.1 | ng/dry g | 72.02 | 0.85 | 89 | 50 - 150% | PASS | 4 | 25 | PASS |
| PCB114 | NA | 77 | 0.05 | 0.1 | ng/dry g | 72.02 | 0 | 107 | 50 - 150% | PASS | 5 | 25 | PASS |
| PCB118 | NA | 69.01 | 0.05 | 0.1 | ng/dry g | 72.02 | 0.7 | 95 | 50 - 150% | PASS | 2 | 25 | PASS |
| PCB119 | NA | 70.2 | 0.05 | 0.1 | ng/dry g | 72.02 | 0 | 97 | 50 - 150% | PASS | 2 | 25 | PASS |
| PCB123 | NA | 72.49 | 0.05 | 0.1 | ng/dry g | 72.02 | 0 | 101 | 50 - 150% | PASS | 4 | 25 | PASS |
| PCB126 | NA | 84.37 | 0.05 | 0.1 | ng/dry g | 72.02 | 0 | 117 | 50 - 150% | PASS | 1 | 25 | PASS |
| PCB128 | NA | 69.64 | 0.05 | 0.1 | ng/dry g | 72.02 | 0 | 97 | 50 - 150% | PASS | 6 | 25 | PASS |
| PCB137 | NA | 79.25 | 0.05 | 0.1 | ng/dry g | 72.02 | 0 | 110 | 50 - 150% | PASS | 5 | 25 | PASS |
| PCB138 | NA | 76.94 | 0.05 | 0.1 | ng/dry g | 72.02 | 1.6 | 105 | 50 - 150% | PASS | 0 | 25 | PASS |
| PCB141 | NA | 66.33 | 0.05 | 0.1 | ng/dry g | 72.02 | 0 | 92 | 50 - 150% | PASS | 2 | 25 | PASS |
| PCB149 | NA | 61.72 | 0.05 | 0.1 | ng/dry g | 72.02 | 1.25 | 84 | 50 - 150% | PASS | 2 | 25 | PASS |
| PCB151 | NA | 67.61 | 0.05 | 0.1 | ng/dry g | 72.02 | 0.4 | 93 | 50 - 150% | PASS | 2 | 25 | PASS |
| PCB153 | NA | 76.34 | 0.05 | 0.1 | ng/dry g | 72.02 | 1.95 | 103 | 50 - 150% | PASS | 1 | 25 | PASS |
| PCB156 | NA | 84.26 | 0.05 | 0.1 | ng/dry g | 72.02 | 0 | 117 | 50 - 150% | PASS | 3 | 25 | PASS |
| PCB157 | NA | 73.75 | 0.05 | 0.1 | ng/dry g | 72.02 | 0 | 102 | 50 - 150% | PASS | 1 | 25 | PASS |
| PCB158 | NA | 71.12 | 0.05 | 0.1 | ng/dry g | 72.02 | 0 | 99 | 50 - 150% | PASS | 0 | 25 | PASS |



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CA ELAP #2769

PCB Congeners

QUALITY CONTROL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | SPIKE LEVEL | SOURCE RESULT | ACCURACY | | PRECISION | | QA CODE | |
|-------------|----------|--------|------|-----|----------|-------------|---------------|----------|-----------|-----------|--------|---------|------|
| | | | | | | | | % | LIMITS | % | LIMITS | | |
| PCB167 | NA | 72.59 | 0.05 | 0.1 | ng/dry g | 72.02 | 0 | 101 | 50 - 150% | PASS | 3 | 25 | PASS |
| PCB168+132 | NA | 128.6 | 0.1 | 0.2 | ng/dry g | 144 | 0.2 | 89 | 50 - 150% | PASS | 1 | 25 | PASS |
| PCB169 | NA | 89.68 | 0.05 | 0.1 | ng/dry g | 72.02 | 0 | 125 | 50 - 150% | PASS | 5 | 25 | PASS |
| PCB170 | NA | 78.59 | 0.05 | 0.1 | ng/dry g | 72.02 | 0 | 109 | 50 - 150% | PASS | 1 | 25 | PASS |
| PCB174 | NA | 75.92 | 0.05 | 0.1 | ng/dry g | 72.02 | 0.7 | 104 | 50 - 150% | PASS | 0 | 25 | PASS |
| PCB177 | NA | 72.41 | 0.05 | 0.1 | ng/dry g | 72.02 | 0 | 101 | 50 - 150% | PASS | 2 | 25 | PASS |
| PCB180 | NA | 79.06 | 0.05 | 0.1 | ng/dry g | 72.02 | 1.3 | 108 | 50 - 150% | PASS | 0 | 25 | PASS |
| PCB183 | NA | 70.93 | 0.05 | 0.1 | ng/dry g | 72.02 | 0.45 | 98 | 50 - 150% | PASS | 2 | 25 | PASS |
| PCB187 | NA | 72.72 | 0.05 | 0.1 | ng/dry g | 72.02 | 0.8 | 100 | 50 - 150% | PASS | 0 | 25 | PASS |
| PCB189 | NA | 86.13 | 0.05 | 0.1 | ng/dry g | 72.02 | 0 | 120 | 50 - 150% | PASS | 1 | 25 | PASS |
| PCB194 | NA | 81.16 | 0.05 | 0.1 | ng/dry g | 72.02 | 0 | 113 | 50 - 150% | PASS | 3 | 25 | PASS |
| PCB195 | NA | 79 | 0.05 | 0.1 | ng/dry g | 72.02 | 0 | 110 | 50 - 150% | PASS | 0 | 25 | PASS |
| PCB199(200) | NA | 61.9 | 0.1 | 0.2 | ng/dry g | 72 | 0 | 86 | 50 - 150% | PASS | 0 | 25 | PASS |
| PCB201 | NA | 77.56 | 0.05 | 0.1 | ng/dry g | 72.02 | 0 | 108 | 50 - 150% | PASS | 1 | 25 | PASS |
| PCB203 | NA | 81.99 | 0.05 | 0.1 | ng/dry g | 72.02 | 0 | 114 | 50 - 150% | PASS | 1 | 25 | PASS |
| PCB206 | NA | 81.73 | 0.05 | 0.1 | ng/dry g | 72.02 | 0 | 113 | 50 - 150% | PASS | 3 | 25 | PASS |
| PCB209 | NA | 79.54 | 0.05 | 0.1 | ng/dry g | 72.02 | 0 | 110 | 50 - 150% | PASS | 0 | 25 | PASS |

Sample ID: 21753-R2

B13-8397

Method: EPA 8270C

Matrix: Sediment

Batch ID: O-6001

Sampled: 12-Jul-13

11:20

Prepared: 09-Aug-13

Received: 13-Jul-13

Analyzed: 30-Aug-13

| | | | | | | | | | | | | | | |
|--------|----|----|------|-----|----------|--|--|--|--|--|-----|----|------|----|
| PCB003 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | 0 | 25 | PASS | |
| PCB005 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | 0 | 25 | PASS | |
| PCB008 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | 0 | 25 | PASS | |
| PCB015 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | 0 | 25 | PASS | |
| PCB018 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | 0 | 25 | PASS | |
| PCB027 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | 0 | 25 | PASS | |
| PCB028 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | 0 | 25 | PASS | |
| PCB029 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | 0 | 25 | PASS | |
| PCB031 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | 0 | 25 | PASS | |
| PCB033 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | 0 | 25 | PASS | |
| PCB037 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | 0 | 25 | PASS | |
| PCB044 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | 143 | 25 | FAIL | SL |



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CA ELAP #2769

PCB Congeners

QUALITY CONTROL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | SPIKE LEVEL | SOURCE RESULT | ACCURACY | | PRECISION | | QA CODE | |
|-------------|----------|--------|------|-----|----------|----------------|------------------|----------|--------|-----------|--------|---------|----|
| | | | | | | | | % | LIMITS | % | LIMITS | | |
| PCB049 | NA | 1 | 0.05 | 0.1 | ng/dry g | | | | | 10 | 25 | PASS | |
| PCB052 | NA | 0.4 | 0.05 | 0.1 | ng/dry g | | | | | 156 | 25 | FAIL | SL |
| PCB056(060) | NA | ND | 0.1 | 0.2 | ng/dry g | | | | | 0 | 25 | PASS | |
| PCB066 | NA | 0.3 | 0.05 | 0.1 | ng/dry g | | | | | 80 | 25 | FAIL | SL |
| PCB070 | NA | 0.6 | 0.05 | 0.1 | ng/dry g | | | | | 67 | 25 | FAIL | NH |
| PCB074 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 143 | 25 | FAIL | SL |
| PCB077 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS | |
| PCB081 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS | |
| PCB087 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 143 | 25 | FAIL | SL |
| PCB095 | NA | 0.5 | 0.05 | 0.1 | ng/dry g | | | | | 46 | 25 | FAIL | NH |
| PCB097 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS | |
| PCB099 | NA | 0.7 | 0.05 | 0.1 | ng/dry g | | | | | 13 | 25 | PASS | |
| PCB101 | NA | 1.1 | 0.05 | 0.1 | ng/dry g | | | | | 24 | 25 | PASS | |
| PCB105 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS | |
| PCB110 | NA | 0.9 | 0.05 | 0.1 | ng/dry g | | | | | 12 | 25 | PASS | |
| PCB114 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS | |
| PCB118 | NA | 0.7 | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS | |
| PCB119 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS | |
| PCB123 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS | |
| PCB126 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS | |
| PCB128 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS | |
| PCB137 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS | |
| PCB138 | NA | 1.4 | 0.05 | 0.1 | ng/dry g | | | | | 25 | 25 | PASS | |
| PCB141 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS | |
| PCB149 | NA | 1.1 | 0.05 | 0.1 | ng/dry g | | | | | 24 | 25 | PASS | |
| PCB151 | NA | 0.4 | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS | |
| PCB153 | NA | 1.6 | 0.05 | 0.1 | ng/dry g | | | | | 36 | 25 | FAIL | NH |
| PCB156 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS | |
| PCB157 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS | |
| PCB158 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS | |
| PCB167 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS | |



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CA ELAP #2769

PCB Congeners

QUALITY CONTROL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | SPIKE LEVEL | SOURCE RESULT | ACCURACY | | PRECISION | | QA CODE | |
|-------------|----------|--------|------|-----|----------|-------------|---------------|----------|--------|-----------|--------|---------|----|
| | | | | | | | | % | LIMITS | % | LIMITS | | |
| PCB168+132 | NA | 0.3 | 0.1 | 0.2 | ng/dry g | | | | | 100 | 25 | FAIL | SL |
| PCB169 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS | |
| PCB170 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS | |
| PCB174 | NA | 0.6 | 0.05 | 0.1 | ng/dry g | | | | | 29 | 25 | FAIL | NH |
| PCB177 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS | |
| PCB180 | NA | 1.1 | 0.05 | 0.1 | ng/dry g | | | | | 31 | 25 | FAIL | NH |
| PCB183 | NA | 0.4 | 0.05 | 0.1 | ng/dry g | | | | | 22 | 25 | PASS | |
| PCB187 | NA | 0.6 | 0.05 | 0.1 | ng/dry g | | | | | 50 | 25 | FAIL | NH |
| PCB189 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS | |
| PCB194 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS | |
| PCB195 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS | |
| PCB199(200) | NA | ND | 0.1 | 0.2 | ng/dry g | | | | | 0 | 25 | PASS | |
| PCB201 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS | |
| PCB203 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS | |
| PCB206 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS | |
| PCB209 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS | |

Sample ID: 21764-MS1

B13-8356

Matrix: Sediment

Sampled: 13-Jul-13

9:22

Received: 13-Jul-13

Method: EPA 8270C

Batch ID: O-6005

Prepared: 24-Aug-13

Analyzed: 06-Sep-13

| | | | | | | | | | | |
|--------|----|-------|------|-----|----------|-------|---|-----|-----------|------|
| PCB003 | NA | 43.31 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 93 | 50 - 150% | PASS |
| PCB005 | NA | 44.96 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 97 | 50 - 150% | PASS |
| PCB008 | NA | 38.79 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 84 | 50 - 150% | PASS |
| PCB015 | NA | 40.44 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 87 | 50 - 150% | PASS |
| PCB018 | NA | 38.41 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 83 | 50 - 150% | PASS |
| PCB027 | NA | 44.64 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 96 | 50 - 150% | PASS |
| PCB028 | NA | 44.4 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 96 | 50 - 150% | PASS |
| PCB029 | NA | 48.06 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 103 | 50 - 150% | PASS |
| PCB031 | NA | 45.43 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 98 | 50 - 150% | PASS |
| PCB033 | NA | 46.39 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 100 | 50 - 150% | PASS |
| PCB037 | NA | 41.74 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 90 | 50 - 150% | PASS |
| PCB044 | NA | 45.05 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 97 | 50 - 150% | PASS |
| PCB049 | NA | 45.62 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 98 | 50 - 150% | PASS |



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CA ELAP #2769

PCB Congeners

QUALITY CONTROL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | SPIKE LEVEL | SOURCE RESULT | ACCURACY | | PRECISION | | QA CODE |
|-------------|----------|--------|------|-----|----------|-------------|---------------|----------|-----------|-----------|--------|---------|
| | | | | | | | | % | LIMITS | % | LIMITS | |
| PCB052 | NA | 45.75 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 99 | 50 - 150% | PASS | | |
| PCB056(060) | NA | 44.2 | 0.1 | 0.2 | ng/dry g | 46.4 | 0 | 95 | 50 - 150% | PASS | | |
| PCB066 | NA | 43.02 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 93 | 50 - 150% | PASS | | |
| PCB070 | NA | 44.19 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 95 | 50 - 150% | PASS | | |
| PCB074 | NA | 44.45 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 96 | 50 - 150% | PASS | | |
| PCB077 | NA | 38.89 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 84 | 50 - 150% | PASS | | |
| PCB081 | NA | 40.72 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 88 | 50 - 150% | PASS | | |
| PCB087 | NA | 43.05 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 93 | 50 - 150% | PASS | | |
| PCB095 | NA | 42.13 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 91 | 50 - 150% | PASS | | |
| PCB097 | NA | 44.14 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 95 | 50 - 150% | PASS | | |
| PCB099 | NA | 44.9 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 97 | 50 - 150% | PASS | | |
| PCB101 | NA | 44.17 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 95 | 50 - 150% | PASS | | |
| PCB105 | NA | 39.08 | 0.05 | 0.1 | ng/dry g | 46.44 | 0.05 | 84 | 50 - 150% | PASS | | |
| PCB110 | NA | 42.04 | 0.05 | 0.1 | ng/dry g | 46.44 | 0.1 | 90 | 50 - 150% | PASS | | |
| PCB114 | NA | 41.55 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 89 | 50 - 150% | PASS | | |
| PCB118 | NA | 41.54 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 89 | 50 - 150% | PASS | | |
| PCB119 | NA | 44.01 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 95 | 50 - 150% | PASS | | |
| PCB123 | NA | 41.39 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 89 | 50 - 150% | PASS | | |
| PCB126 | NA | 41.1 | 0.05 | 0.1 | ng/dry g | 46.44 | 1.7 | 85 | 50 - 150% | PASS | | |
| PCB128 | NA | 40.4 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 87 | 50 - 150% | PASS | | |
| PCB137 | NA | 45.71 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 98 | 50 - 150% | PASS | | |
| PCB138 | NA | 38.93 | 0.05 | 0.1 | ng/dry g | 46.44 | 0.4 | 83 | 50 - 150% | PASS | | |
| PCB141 | NA | 37.78 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 81 | 50 - 150% | PASS | | |
| PCB149 | NA | 40.33 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 87 | 50 - 150% | PASS | | |
| PCB151 | NA | 40.29 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 87 | 50 - 150% | PASS | | |
| PCB153 | NA | 40.22 | 0.05 | 0.1 | ng/dry g | 46.44 | 0.05 | 86 | 50 - 150% | PASS | | |
| PCB156 | NA | 37.76 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 81 | 50 - 150% | PASS | | |
| PCB157 | NA | 41.25 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 89 | 50 - 150% | PASS | | |
| PCB158 | NA | 38.02 | 0.05 | 0.1 | ng/dry g | 46.44 | 0.15 | 82 | 50 - 150% | PASS | | |
| PCB167 | NA | 41.67 | 0.05 | 0.1 | ng/dry g | 46.44 | 0.15 | 89 | 50 - 150% | PASS | | |
| PCB168+132 | NA | 88.4 | 0.1 | 0.2 | ng/dry g | 92.9 | 0 | 95 | 50 - 150% | PASS | | |



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PCB Congeners

QUALITY CONTROL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | SPIKE LEVEL | SOURCE RESULT | ACCURACY | | PRECISION | | QA CODE |
|-------------|----------|--------|------|-----|----------|-------------|---------------|----------|-----------|-----------|--------|---------|
| | | | | | | | | % | LIMITS | % | LIMITS | |
| PCB169 | NA | 46.93 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 101 | 50 - 150% | PASS | | |
| PCB170 | NA | 47.29 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 102 | 50 - 150% | PASS | | |
| PCB174 | NA | 47.69 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 103 | 50 - 150% | PASS | | |
| PCB177 | NA | 48.39 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 104 | 50 - 150% | PASS | | |
| PCB180 | NA | 45.16 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 97 | 50 - 150% | PASS | | |
| PCB183 | NA | 48.1 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 104 | 50 - 150% | PASS | | |
| PCB187 | NA | 44.17 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 95 | 50 - 150% | PASS | | |
| PCB189 | NA | 46.86 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 101 | 50 - 150% | PASS | | |
| PCB194 | NA | 43.89 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 95 | 50 - 150% | PASS | | |
| PCB195 | NA | 43.27 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 93 | 50 - 150% | PASS | | |
| PCB199(200) | NA | 47.5 | 0.1 | 0.2 | ng/dry g | 46.4 | 0 | 102 | 50 - 150% | PASS | | |
| PCB201 | NA | 45.84 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 99 | 50 - 150% | PASS | | |
| PCB203 | NA | 46.22 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 100 | 50 - 150% | PASS | | |
| PCB206 | NA | 43.13 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 93 | 50 - 150% | PASS | | |
| PCB209 | NA | 40.3 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 87 | 50 - 150% | PASS | | |

Sample ID: 21764-MS2

B13-8356

Method: EPA 8270C

Matrix: Sediment

Batch ID: O-6005

Sampled: 13-Jul-13

9:22

Received: 13-Jul-13

Prepared: 24-Aug-13

Analyzed: 06-Sep-13

| | | | | | | | | | | | | | |
|--------|----|-------|------|-----|----------|-------|---|-----|-----------|------|----|----|------|
| PCB003 | NA | 40.12 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 86 | 50 - 150% | PASS | 8 | 25 | PASS |
| PCB005 | NA | 43.05 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 93 | 50 - 150% | PASS | 4 | 25 | PASS |
| PCB008 | NA | 46.76 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 101 | 50 - 150% | PASS | 18 | 25 | PASS |
| PCB015 | NA | 39.68 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 85 | 50 - 150% | PASS | 2 | 25 | PASS |
| PCB018 | NA | 46.91 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 101 | 50 - 150% | PASS | 20 | 25 | PASS |
| PCB027 | NA | 44.26 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 95 | 50 - 150% | PASS | 1 | 25 | PASS |
| PCB028 | NA | 43.15 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 93 | 50 - 150% | PASS | 3 | 25 | PASS |
| PCB029 | NA | 47.33 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 102 | 50 - 150% | PASS | 1 | 25 | PASS |
| PCB031 | NA | 45.61 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 98 | 50 - 150% | PASS | 0 | 25 | PASS |
| PCB033 | NA | 45.42 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 98 | 50 - 150% | PASS | 2 | 25 | PASS |
| PCB037 | NA | 40.7 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 88 | 50 - 150% | PASS | 2 | 25 | PASS |
| PCB044 | NA | 44.3 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 95 | 50 - 150% | PASS | 2 | 25 | PASS |
| PCB049 | NA | 44.61 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 96 | 50 - 150% | PASS | 2 | 25 | PASS |
| PCB052 | NA | 43.81 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 94 | 50 - 150% | PASS | 5 | 25 | PASS |



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PCB Congeners

QUALITY CONTROL REPORT

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|-------------|----------|--------|------|-----|----------|-------------|---------------|----------|-----------|-----------|--------|---------|------|
| | | | | | | | | % | LIMITS | % | LIMITS | | |
| PCB056(060) | NA | 44.1 | 0.1 | 0.2 | ng/dry g | 46.4 | 0 | 95 | 50 - 150% | PASS | 0 | 25 | PASS |
| PCB066 | NA | 42.78 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 92 | 50 - 150% | PASS | 1 | 25 | PASS |
| PCB070 | NA | 43.4 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 93 | 50 - 150% | PASS | 2 | 25 | PASS |
| PCB074 | NA | 43.57 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 94 | 50 - 150% | PASS | 2 | 25 | PASS |
| PCB077 | NA | 38.85 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 84 | 50 - 150% | PASS | 0 | 25 | PASS |
| PCB081 | NA | 40.25 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 87 | 50 - 150% | PASS | 1 | 25 | PASS |
| PCB087 | NA | 41.78 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 90 | 50 - 150% | PASS | 3 | 25 | PASS |
| PCB095 | NA | 40.75 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 88 | 50 - 150% | PASS | 3 | 25 | PASS |
| PCB097 | NA | 42.89 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 92 | 50 - 150% | PASS | 3 | 25 | PASS |
| PCB099 | NA | 44.15 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 95 | 50 - 150% | PASS | 2 | 25 | PASS |
| PCB101 | NA | 42.94 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 92 | 50 - 150% | PASS | 3 | 25 | PASS |
| PCB105 | NA | 39.54 | 0.05 | 0.1 | ng/dry g | 46.44 | 0.05 | 85 | 50 - 150% | PASS | 1 | 25 | PASS |
| PCB110 | NA | 41.42 | 0.05 | 0.1 | ng/dry g | 46.44 | 0.1 | 89 | 50 - 150% | PASS | 1 | 25 | PASS |
| PCB114 | NA | 41.61 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 90 | 50 - 150% | PASS | 1 | 25 | PASS |
| PCB118 | NA | 41.39 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 89 | 50 - 150% | PASS | 0 | 25 | PASS |
| PCB119 | NA | 42.99 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 93 | 50 - 150% | PASS | 2 | 25 | PASS |
| PCB123 | NA | 41.37 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 89 | 50 - 150% | PASS | 0 | 25 | PASS |
| PCB126 | NA | 37.61 | 0.05 | 0.1 | ng/dry g | 46.44 | 1.7 | 77 | 50 - 150% | PASS | 10 | 25 | PASS |
| PCB128 | NA | 46.26 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 100 | 50 - 150% | PASS | 14 | 25 | PASS |
| PCB137 | NA | 47.09 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 101 | 50 - 150% | PASS | 3 | 25 | PASS |
| PCB138 | NA | 38.82 | 0.05 | 0.1 | ng/dry g | 46.44 | 0.4 | 83 | 50 - 150% | PASS | 0 | 25 | PASS |
| PCB141 | NA | 37.24 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 80 | 50 - 150% | PASS | 1 | 25 | PASS |
| PCB149 | NA | 39.58 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 85 | 50 - 150% | PASS | 2 | 25 | PASS |
| PCB151 | NA | 39.92 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 86 | 50 - 150% | PASS | 1 | 25 | PASS |
| PCB153 | NA | 39.06 | 0.05 | 0.1 | ng/dry g | 46.44 | 0.05 | 84 | 50 - 150% | PASS | 2 | 25 | PASS |
| PCB156 | NA | 38.71 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 83 | 50 - 150% | PASS | 2 | 25 | PASS |
| PCB157 | NA | 41.43 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 89 | 50 - 150% | PASS | 0 | 25 | PASS |
| PCB158 | NA | 38.17 | 0.05 | 0.1 | ng/dry g | 46.44 | 0.15 | 82 | 50 - 150% | PASS | 0 | 25 | PASS |
| PCB167 | NA | 41.68 | 0.05 | 0.1 | ng/dry g | 46.44 | 0.15 | 89 | 50 - 150% | PASS | 0 | 25 | PASS |
| PCB168+132 | NA | 87.4 | 0.1 | 0.2 | ng/dry g | 92.9 | 0 | 94 | 50 - 150% | PASS | 1 | 25 | PASS |
| PCB169 | NA | 47.79 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 103 | 50 - 150% | PASS | 2 | 25 | PASS |



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PCB Congeners

QUALITY CONTROL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | SPIKE LEVEL | SOURCE RESULT | ACCURACY | | PRECISION | | QA CODE | |
|-------------|----------|--------|------|-----|----------|-------------|---------------|----------|-----------|-----------|--------|---------|------|
| | | | | | | | | % | LIMITS | % | LIMITS | | |
| PCB170 | NA | 47.71 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 103 | 50 - 150% | PASS | 1 | 25 | PASS |
| PCB174 | NA | 48.36 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 104 | 50 - 150% | PASS | 1 | 25 | PASS |
| PCB177 | NA | 48.04 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 103 | 50 - 150% | PASS | 1 | 25 | PASS |
| PCB180 | NA | 43.66 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 94 | 50 - 150% | PASS | 3 | 25 | PASS |
| PCB183 | NA | 48.15 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 104 | 50 - 150% | PASS | 0 | 25 | PASS |
| PCB187 | NA | 49.58 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 107 | 50 - 150% | PASS | 12 | 25 | PASS |
| PCB189 | NA | 45.51 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 98 | 50 - 150% | PASS | 3 | 25 | PASS |
| PCB194 | NA | 42.95 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 92 | 50 - 150% | PASS | 3 | 25 | PASS |
| PCB195 | NA | 43.39 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 93 | 50 - 150% | PASS | 0 | 25 | PASS |
| PCB199(200) | NA | 47.3 | 0.1 | 0.2 | ng/dry g | 46.4 | 0 | 102 | 50 - 150% | PASS | 0 | 25 | PASS |
| PCB201 | NA | 44.75 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 96 | 50 - 150% | PASS | 3 | 25 | PASS |
| PCB203 | NA | 46.05 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 99 | 50 - 150% | PASS | 1 | 25 | PASS |
| PCB206 | NA | 41.14 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 89 | 50 - 150% | PASS | 4 | 25 | PASS |
| PCB209 | NA | 38.43 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 83 | 50 - 150% | PASS | 5 | 25 | PASS |

Sample ID: 21764-R2

B13-8356

Method: EPA 8270C

Matrix: Sediment

Batch ID: O-6005

Sampled: 13-Jul-13

9:22

Prepared: 24-Aug-13

Received: 13-Jul-13

Analyzed: 06-Sep-13

| | | | | | | | | | | | | | |
|-------------|----|----|------|-----|----------|--|--|--|--|--|---|----|------|
| PCB003 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | 0 | 25 | PASS |
| PCB005 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | 0 | 25 | PASS |
| PCB008 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | 0 | 25 | PASS |
| PCB015 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | 0 | 25 | PASS |
| PCB018 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | 0 | 25 | PASS |
| PCB027 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | 0 | 25 | PASS |
| PCB028 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | 0 | 25 | PASS |
| PCB029 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | 0 | 25 | PASS |
| PCB031 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | 0 | 25 | PASS |
| PCB033 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | 0 | 25 | PASS |
| PCB037 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | 0 | 25 | PASS |
| PCB044 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | 0 | 25 | PASS |
| PCB049 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | 0 | 25 | PASS |
| PCB052 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | 0 | 25 | PASS |
| PCB056(060) | NA | ND | 0.1 | 0.2 | ng/dry g | | | | | | 0 | 25 | PASS |



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PCB Congeners

QUALITY CONTROL REPORT

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|------------|----------|--------|------|-----|----------|----------------|------------------|----------|--------|-----------|--------|---------|----|
| | | | | | | | | % | LIMITS | % | LIMITS | | |
| PCB066 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS | |
| PCB070 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS | |
| PCB074 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS | |
| PCB077 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS | |
| PCB081 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS | |
| PCB087 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS | |
| PCB095 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS | |
| PCB097 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS | |
| PCB099 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS | |
| PCB101 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS | |
| PCB105 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 67 | 25 | FAIL | SL |
| PCB110 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 120 | 25 | FAIL | SL |
| PCB114 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS | |
| PCB118 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS | |
| PCB119 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS | |
| PCB123 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS | |
| PCB126 | NA | 2.2 | 0.05 | 0.1 | ng/dry g | | | | | 59 | 25 | FAIL | NH |
| PCB128 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS | |
| PCB137 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS | |
| PCB138 | NA | 0.3 | 0.05 | 0.1 | ng/dry g | | | | | 50 | 25 | FAIL | SL |
| PCB141 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS | |
| PCB149 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS | |
| PCB151 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS | |
| PCB153 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 67 | 25 | FAIL | SL |
| PCB156 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS | |
| PCB157 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS | |
| PCB158 | NA | 0.2 | 0.05 | 0.1 | ng/dry g | | | | | 67 | 25 | FAIL | SL |
| PCB167 | NA | 0.1 | 0.05 | 0.1 | ng/dry g | | | | | 67 | 25 | FAIL | SL |
| PCB168+132 | NA | ND | 0.1 | 0.2 | ng/dry g | | | | | 0 | 25 | PASS | |
| PCB169 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS | |
| PCB170 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS | |



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CA ELAP #2769

PCB Congeners

QUALITY CONTROL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | SPIKE LEVEL | SOURCE RESULT | ACCURACY % | PRECISION % | QA CODE |
|-------------|----------|--------|------|-----|----------|-------------|---------------|------------|-------------|---------|
| | | | | | | | | LIMITS | LIMITS | |
| PCB174 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | 0 25 | PASS |
| PCB177 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | 0 25 | PASS |
| PCB180 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | 0 25 | PASS |
| PCB183 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | 0 25 | PASS |
| PCB187 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | 0 25 | PASS |
| PCB189 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | 0 25 | PASS |
| PCB194 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | 0 25 | PASS |
| PCB195 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | 0 25 | PASS |
| PCB199(200) | NA | ND | 0.1 | 0.2 | ng/dry g | | | | 0 25 | PASS |
| PCB201 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | 0 25 | PASS |
| PCB203 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | 0 25 | PASS |
| PCB206 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | 0 25 | PASS |
| PCB209 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | 0 25 | PASS |

Sample ID: 21888-CRM1

QAQC CRM - SRM 1944

Matrix: Sediment

Sampled:

Received:

Method: EPA 8270C

Batch ID: O-6001

Prepared: 09-Aug-13

Analyzed: 30-Aug-13

| | | | | | | | | | | |
|--------|----|------|------|-----|----------|------|--|---------------|--|------|
| PCB008 | NA | 23.3 | 0.05 | 0.1 | µg/dry g | 22.3 | | 104 70 - 130% | | PASS |
| PCB018 | NA | 47.1 | 0.05 | 0.1 | µg/dry g | 51 | | 92 70 - 130% | | PASS |
| PCB028 | NA | 79.2 | 0.05 | 0.1 | µg/dry g | 80.8 | | 98 70 - 130% | | PASS |
| PCB031 | NA | 80.5 | 0.05 | 0.1 | µg/dry g | 78.7 | | 102 70 - 130% | | PASS |
| PCB044 | NA | 45.7 | 0.05 | 0.1 | µg/dry g | 60.2 | | 76 70 - 130% | | PASS |
| PCB049 | NA | 59.4 | 0.05 | 0.1 | µg/dry g | 53 | | 112 70 - 130% | | PASS |
| PCB052 | NA | 60.5 | 0.05 | 0.1 | µg/dry g | 79.4 | | 76 70 - 130% | | PASS |
| PCB066 | NA | 52.8 | 0.05 | 0.1 | µg/dry g | 71.9 | | 73 70 - 130% | | PASS |
| PCB087 | NA | 22.2 | 0.05 | 0.1 | µg/dry g | 29.9 | | 74 70 - 130% | | PASS |
| PCB095 | NA | 46.2 | 0.05 | 0.1 | µg/dry g | 65 | | 71 70 - 130% | | PASS |
| PCB099 | NA | 27.6 | 0.05 | 0.1 | µg/dry g | 37.5 | | 74 70 - 130% | | PASS |
| PCB101 | NA | 52 | 0.05 | 0.1 | µg/dry g | 73.4 | | 71 70 - 130% | | PASS |
| PCB105 | NA | 17.6 | 0.05 | 0.1 | µg/dry g | 24.5 | | 72 70 - 130% | | PASS |
| PCB110 | NA | 45.4 | 0.05 | 0.1 | µg/dry g | 63.5 | | 71 70 - 130% | | PASS |
| PCB118 | NA | 41.1 | 0.05 | 0.1 | µg/dry g | 58 | | 71 70 - 130% | | PASS |
| PCB128 | NA | 7.6 | 0.05 | 0.1 | µg/dry g | 8.5 | | 89 70 - 130% | | PASS |



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CA ELAP #2769

PCB Congeners

QUALITY CONTROL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | SPIKE LEVEL | SOURCE RESULT | ACCURACY | | PRECISION | | QA CODE |
|---------|----------|--------|------|-----|----------|-------------|---------------|----------|-----------|-----------|--------|---------|
| | | | | | | | | % | LIMITS | % | LIMITS | |
| PCB138 | NA | 56.8 | 0.05 | 0.1 | µg/dry g | 62.1 | | 91 | 70 - 130% | PASS | | |
| PCB149 | NA | 36.6 | 0.05 | 0.1 | µg/dry g | 49.7 | | 74 | 70 - 130% | PASS | | |
| PCB151 | NA | 12.6 | 0.05 | 0.1 | µg/dry g | 16.9 | | 75 | 70 - 130% | PASS | | |
| PCB153 | NA | 62.8 | 0.05 | 0.1 | µg/dry g | 74 | | 85 | 70 - 130% | PASS | | |
| PCB156 | NA | 6.4 | 0.05 | 0.1 | µg/dry g | 6.5 | | 98 | 70 - 130% | PASS | | |
| PCB170 | NA | 26.7 | 0.05 | 0.1 | µg/dry g | 22.6 | | 118 | 70 - 130% | PASS | | |
| PCB180 | NA | 32.6 | 0.05 | 0.1 | µg/dry g | 44.3 | | 74 | 70 - 130% | PASS | | |
| PCB183 | NA | 10.4 | 0.05 | 0.1 | µg/dry g | 12.2 | | 85 | 70 - 130% | PASS | | |
| PCB187 | NA | 21.5 | 0.05 | 0.1 | µg/dry g | 24.1 | | 89 | 70 - 130% | PASS | | |
| PCB194 | NA | 14.3 | 0.05 | 0.1 | µg/dry g | 11.2 | | 128 | 70 - 130% | PASS | | |
| PCB195 | NA | 4.3 | 0.05 | 0.1 | µg/dry g | 3.8 | | 113 | 70 - 130% | PASS | | |
| PCB206 | NA | 11.3 | 0.05 | 0.1 | µg/dry g | 9.2 | | 123 | 70 - 130% | PASS | | |
| PCB209 | NA | 8.5 | 0.05 | 0.1 | µg/dry g | 6.8 | | 125 | 70 - 130% | PASS | | |

Sample ID: 21889-CRM1

QAQC CRM - SRM 1944

Matrix: Sediment

Sampled:

Received:

Method: EPA 8270C

Batch ID: O-6003

Prepared: 15-Aug-13

Analyzed: 30-Aug-13

| | | | | | | | | | | | | |
|--------|----|------|------|-----|----------|------|--|-----|-----------|------|--|--|
| PCB008 | NA | 17.2 | 0.05 | 0.1 | µg/dry g | 22.3 | | 77 | 70 - 130% | PASS | | |
| PCB018 | NA | 39 | 0.05 | 0.1 | µg/dry g | 51 | | 76 | 70 - 130% | PASS | | |
| PCB028 | NA | 61.1 | 0.05 | 0.1 | µg/dry g | 80.8 | | 76 | 70 - 130% | PASS | | |
| PCB031 | NA | 65.3 | 0.05 | 0.1 | µg/dry g | 78.7 | | 83 | 70 - 130% | PASS | | |
| PCB044 | NA | 42.3 | 0.05 | 0.1 | µg/dry g | 60.2 | | 70 | 70 - 130% | PASS | | |
| PCB049 | NA | 53.6 | 0.05 | 0.1 | µg/dry g | 53 | | 101 | 70 - 130% | PASS | | |
| PCB052 | NA | 60 | 0.05 | 0.1 | µg/dry g | 79.4 | | 76 | 70 - 130% | PASS | | |
| PCB066 | NA | 51.7 | 0.05 | 0.1 | µg/dry g | 71.9 | | 72 | 70 - 130% | PASS | | |
| PCB087 | NA | 23.2 | 0.05 | 0.1 | µg/dry g | 29.9 | | 78 | 70 - 130% | PASS | | |
| PCB095 | NA | 45.9 | 0.05 | 0.1 | µg/dry g | 65 | | 71 | 70 - 130% | PASS | | |
| PCB099 | NA | 27.1 | 0.05 | 0.1 | µg/dry g | 37.5 | | 72 | 70 - 130% | PASS | | |
| PCB101 | NA | 53.9 | 0.05 | 0.1 | µg/dry g | 73.4 | | 73 | 70 - 130% | PASS | | |
| PCB105 | NA | 18.3 | 0.05 | 0.1 | µg/dry g | 24.5 | | 75 | 70 - 130% | PASS | | |
| PCB110 | NA | 48.9 | 0.05 | 0.1 | µg/dry g | 63.5 | | 77 | 70 - 130% | PASS | | |
| PCB118 | NA | 42.7 | 0.05 | 0.1 | µg/dry g | 58 | | 74 | 70 - 130% | PASS | | |
| PCB128 | NA | 8.2 | 0.05 | 0.1 | µg/dry g | 8.5 | | 96 | 70 - 130% | PASS | | |



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CA ELAP #2769

PCB Congeners

QUALITY CONTROL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | SPIKE LEVEL | SOURCE RESULT | ACCURACY | | PRECISION | | QA CODE |
|---------|----------|--------|------|-----|----------|-------------|---------------|----------|-----------|-----------|--------|---------|
| | | | | | | | | % | LIMITS | % | LIMITS | |
| PCB138 | NA | 43.9 | 0.05 | 0.1 | µg/dry g | 62.1 | | 71 | 70 - 130% | PASS | | |
| PCB149 | NA | 35 | 0.05 | 0.1 | µg/dry g | 49.7 | | 70 | 70 - 130% | PASS | | |
| PCB151 | NA | 13.9 | 0.05 | 0.1 | µg/dry g | 16.9 | | 82 | 70 - 130% | PASS | | |
| PCB153 | NA | 53.1 | 0.05 | 0.1 | µg/dry g | 74 | | 72 | 70 - 130% | PASS | | |
| PCB156 | NA | 3.3 | 0.05 | 0.1 | µg/dry g | 6.5 | | 51 | 70 - 130% | FAIL | | R |
| PCB170 | NA | 20.9 | 0.05 | 0.1 | µg/dry g | 22.6 | | 92 | 70 - 130% | PASS | | |
| PCB180 | NA | 38.1 | 0.05 | 0.1 | µg/dry g | 44.3 | | 86 | 70 - 130% | PASS | | |
| PCB183 | NA | 10.2 | 0.05 | 0.1 | µg/dry g | 12.2 | | 84 | 70 - 130% | PASS | | |
| PCB187 | NA | 22 | 0.05 | 0.1 | µg/dry g | 24.1 | | 91 | 70 - 130% | PASS | | |
| PCB194 | NA | 9 | 0.05 | 0.1 | µg/dry g | 11.2 | | 80 | 70 - 130% | PASS | | |
| PCB195 | NA | 4.1 | 0.05 | 0.1 | µg/dry g | 3.8 | | 108 | 70 - 130% | PASS | | |
| PCB206 | NA | 8.7 | 0.05 | 0.1 | µg/dry g | 9.2 | | 95 | 70 - 130% | PASS | | |
| PCB209 | NA | 5.7 | 0.05 | 0.1 | µg/dry g | 6.8 | | 84 | 70 - 130% | PASS | | |



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CA ELAP #2769

PolyBrominated Diphenyl Ethers

QUALITY CONTROL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | SPIKE LEVEL | SOURCE RESULT | ACCURACY % | PRECISION % | QA CODE |
|---------|----------|--------|-----|----|-------|-------------|---------------|------------|-------------|---------|
| | | | | | | | | LIMITS | LIMITS | |

Sample ID: 21731-B1

QAQC Procedural Blank

Matrix: DI Water

Sampled:

Received:

Method: EPA 8270C-NCI

Batch ID: O-6001

Prepared: 09-Aug-13

Analyzed: 24-Aug-13

| | | | | | | | | | | |
|----------|----|-----|------|-----|------------|-----|--|-----|-----------|------|
| (DFPBDE) | NA | 87 | | | % Recovery | 100 | | 87 | 50 - 150% | PASS |
| (FTBDE) | NA | 102 | | | % Recovery | 100 | | 102 | 50 - 150% | PASS |
| PBDE017 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |
| PBDE028 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |
| PBDE047 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |
| PBDE049 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |
| PBDE066 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |
| PBDE071 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |
| PBDE085 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |
| PBDE099 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |
| PBDE100 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |
| PBDE138 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |
| PBDE153 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |
| PBDE154 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |
| PBDE183 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |
| PBDE190 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |
| PBDE209 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |

Sample ID: 21731-BS1

QAQC Procedural Blank

Matrix: DI Water

Sampled:

Received:

Method: EPA 8270C-NCI

Batch ID: O-6001

Prepared: 09-Aug-13

Analyzed: 24-Aug-13

| | | | | | | | | | | |
|----------|----|-------|------|-----|------------|-----|---|-----|-----------|------|
| (DFPBDE) | NA | 106 | | | % Recovery | 100 | 0 | 106 | 50 - 150% | PASS |
| (FTBDE) | NA | 112 | | | % Recovery | 100 | 0 | 112 | 50 - 150% | PASS |
| PBDE017 | NA | 440.6 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 110 | 50 - 150% | PASS |
| PBDE028 | NA | 452.8 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 113 | 50 - 150% | PASS |
| PBDE047 | NA | 433.5 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 108 | 50 - 150% | PASS |
| PBDE049 | NA | 350.8 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 88 | 50 - 150% | PASS |
| PBDE066 | NA | 443.2 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 111 | 50 - 150% | PASS |
| PBDE071 | NA | 432.1 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 108 | 50 - 150% | PASS |
| PBDE085 | NA | 489 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 122 | 50 - 150% | PASS |



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CA ELAP #2769

PolyBrominated Diphenyl Ethers

QUALITY CONTROL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | SPIKE LEVEL | SOURCE RESULT | ACCURACY | | PRECISION | | QA CODE |
|---------|----------|--------|------|-----|----------|-------------|---------------|----------|-----------|-----------|--------|---------|
| | | | | | | | | % | LIMITS | % | LIMITS | |
| PBDE099 | NA | 455.2 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 114 | 50 - 150% | PASS | | |
| PBDE100 | NA | 444.1 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 111 | 50 - 150% | PASS | | |
| PBDE138 | NA | 466.9 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 117 | 50 - 150% | PASS | | |
| PBDE153 | NA | 482 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 121 | 50 - 150% | PASS | | |
| PBDE154 | NA | 412 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 103 | 50 - 150% | PASS | | |
| PBDE183 | NA | 419.7 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 105 | 50 - 150% | PASS | | |
| PBDE190 | NA | 514 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 128 | 50 - 150% | PASS | | |
| PBDE209 | NA | 1910 | 0.05 | 0.1 | ng/dry g | 2000 | 0 | 95 | 50 - 150% | PASS | | |

Sample ID: 21731-BS2

QAQC Procedural Blank

Matrix: DI Water

Sampled:

Received:

Method: EPA 8270C-NCI

Batch ID: O-6001

Prepared: 09-Aug-13

Analyzed: 24-Aug-13

| | | | | | | | | | | | | | |
|----------|----|-------|------|-----|------------|------|---|-----|-----------|------|----|----|------|
| (DFPBDE) | NA | 103 | | | % Recovery | 100 | 0 | 103 | 50 - 150% | PASS | 3 | 25 | PASS |
| (FTBDE) | NA | 110 | | | % Recovery | 100 | 0 | 110 | 50 - 150% | PASS | 2 | 25 | PASS |
| PBDE017 | NA | 446.2 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 112 | 50 - 150% | PASS | 2 | 25 | PASS |
| PBDE028 | NA | 455.8 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 114 | 50 - 150% | PASS | 1 | 25 | PASS |
| PBDE047 | NA | 427.6 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 107 | 50 - 150% | PASS | 1 | 25 | PASS |
| PBDE049 | NA | 348 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 87 | 50 - 150% | PASS | 1 | 25 | PASS |
| PBDE066 | NA | 437.6 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 109 | 50 - 150% | PASS | 2 | 25 | PASS |
| PBDE071 | NA | 460 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 115 | 50 - 150% | PASS | 6 | 25 | PASS |
| PBDE085 | NA | 513 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 128 | 50 - 150% | PASS | 5 | 25 | PASS |
| PBDE099 | NA | 460.3 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 115 | 50 - 150% | PASS | 1 | 25 | PASS |
| PBDE100 | NA | 452.5 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 113 | 50 - 150% | PASS | 2 | 25 | PASS |
| PBDE138 | NA | 488.4 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 122 | 50 - 150% | PASS | 4 | 25 | PASS |
| PBDE153 | NA | 497.7 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 124 | 50 - 150% | PASS | 2 | 25 | PASS |
| PBDE154 | NA | 440.8 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 110 | 50 - 150% | PASS | 7 | 25 | PASS |
| PBDE183 | NA | 435.5 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 109 | 50 - 150% | PASS | 4 | 25 | PASS |
| PBDE190 | NA | 578 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 145 | 50 - 150% | PASS | 12 | 25 | PASS |
| PBDE209 | NA | 2198 | 0.05 | 0.1 | ng/dry g | 2000 | 0 | 110 | 50 - 150% | PASS | 14 | 25 | PASS |

Sample ID: 21732-B1

QAQC Procedural Blank

Matrix: DI Water

Sampled:

Received:

Method: EPA 8270C-NCI

Batch ID: O-6005

Prepared: 24-Aug-13

Analyzed: 06-Sep-13

| | | | | | | | | | | | | | |
|----------|----|-----|--|--|------------|-----|--|-----|-----------|------|--|--|--|
| (DFPBDE) | NA | 127 | | | % Recovery | 100 | | 127 | 50 - 150% | PASS | | | |
|----------|----|-----|--|--|------------|-----|--|-----|-----------|------|--|--|--|



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CA ELAP #2769

PolyBrominated Diphenyl Ethers

QUALITY CONTROL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | SPIKE LEVEL | SOURCE RESULT | ACCURACY % | PRECISION % | QA CODE |
|---------|----------|--------|------|-----|------------|-------------|---------------|------------|-------------|---------|
| | | | | | | | | LIMITS | LIMITS | |
| (FTBDE) | NA | 103 | | | % Recovery | 100 | | 103 | 50 - 150% | PASS |
| PBDE017 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |
| PBDE028 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |
| PBDE047 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |
| PBDE049 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |
| PBDE066 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |
| PBDE071 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |
| PBDE085 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |
| PBDE099 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |
| PBDE100 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |
| PBDE138 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |
| PBDE153 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |
| PBDE154 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |
| PBDE183 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |
| PBDE190 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |
| PBDE209 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |

Sample ID: 21732-BS1

QAQC Procedural Blank

Matrix: DI Water

Sampled:

Received:

Method: EPA 8270C-NCI

Batch ID: O-6005

Prepared: 24-Aug-13

Analyzed: 06-Sep-13

| | | | | | | | | | | |
|----------|----|--------|------|-----|------------|-----|---|-----|-----------|------|
| (DFPBDE) | NA | 109 | | | % Recovery | 100 | 0 | 109 | 50 - 150% | PASS |
| (FTBDE) | NA | 121 | | | % Recovery | 100 | 0 | 121 | 50 - 150% | PASS |
| PBDE017 | NA | 394.02 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 99 | 50 - 150% | PASS |
| PBDE028 | NA | 388.6 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 97 | 50 - 150% | PASS |
| PBDE047 | NA | 418.2 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 105 | 50 - 150% | PASS |
| PBDE049 | NA | 389.4 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 97 | 50 - 150% | PASS |
| PBDE066 | NA | 358.6 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 90 | 50 - 150% | PASS |
| PBDE071 | NA | 376.1 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 94 | 50 - 150% | PASS |
| PBDE085 | NA | 381.02 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 95 | 50 - 150% | PASS |
| PBDE099 | NA | 371.4 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 93 | 50 - 150% | PASS |
| PBDE100 | NA | 347.4 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 87 | 50 - 150% | PASS |
| PBDE138 | NA | 388.7 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 97 | 50 - 150% | PASS |
| PBDE153 | NA | 403.6 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 101 | 50 - 150% | PASS |



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CA ELAP #2769

PolyBrominated Diphenyl Ethers

QUALITY CONTROL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | SPIKE LEVEL | SOURCE RESULT | ACCURACY % | PRECISION % | QA CODE |
|---------|----------|--------|------|-----|----------|-------------|---------------|------------|-------------|---------|
| | | | | | | | | LIMITS | LIMITS | |
| PBDE154 | NA | 429.5 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 107 | 50 - 150% | PASS |
| PBDE183 | NA | 381.9 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 95 | 50 - 150% | PASS |
| PBDE190 | NA | 443.85 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 111 | 50 - 150% | PASS |
| PBDE209 | NA | 405.9 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 101 | 50 - 150% | PASS |

Sample ID: 21732-BS2

QAQC Procedural Blank

Matrix: DI Water

Sampled:

Received:

Method: EPA 8270C-NCI

Batch ID: O-6005

Prepared: 24-Aug-13

Analyzed: 06-Sep-13

| | | | | | | | | | | | | | |
|----------|----|--------|------|-----|------------|-----|---|-----|-----------|------|----|----|------|
| (DFPBDE) | NA | 115 | | | % Recovery | 100 | 0 | 115 | 50 - 150% | PASS | 5 | 25 | PASS |
| (FTBDE) | NA | 120 | | | % Recovery | 100 | 0 | 120 | 50 - 150% | PASS | 1 | 25 | PASS |
| PBDE017 | NA | 384.6 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 96 | 50 - 150% | PASS | 3 | 25 | PASS |
| PBDE028 | NA | 401.9 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 100 | 50 - 150% | PASS | 3 | 25 | PASS |
| PBDE047 | NA | 375.2 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 94 | 50 - 150% | PASS | 11 | 25 | PASS |
| PBDE049 | NA | 395.8 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 99 | 50 - 150% | PASS | 2 | 25 | PASS |
| PBDE066 | NA | 399.2 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 100 | 50 - 150% | PASS | 11 | 25 | PASS |
| PBDE071 | NA | 358.9 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 90 | 50 - 150% | PASS | 4 | 25 | PASS |
| PBDE085 | NA | 419.7 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 105 | 50 - 150% | PASS | 10 | 25 | PASS |
| PBDE099 | NA | 395.9 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 99 | 50 - 150% | PASS | 6 | 25 | PASS |
| PBDE100 | NA | 402.6 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 101 | 50 - 150% | PASS | 15 | 25 | PASS |
| PBDE138 | NA | 393.2 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 98 | 50 - 150% | PASS | 1 | 25 | PASS |
| PBDE153 | NA | 384.8 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 96 | 50 - 150% | PASS | 5 | 25 | PASS |
| PBDE154 | NA | 387.2 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 97 | 50 - 150% | PASS | 10 | 25 | PASS |
| PBDE183 | NA | 419.6 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 105 | 50 - 150% | PASS | 10 | 25 | PASS |
| PBDE190 | NA | 423.95 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 106 | 50 - 150% | PASS | 5 | 25 | PASS |
| PBDE209 | NA | 377.8 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 94 | 50 - 150% | PASS | 7 | 25 | PASS |

Sample ID: 21733-B1

B13-8382

Matrix: Sediment

Sampled: 10-Jul-13

11:04

Received: 13-Jul-13

Method: EPA 8270C-NCI

Batch ID: O-6003

Prepared: 15-Aug-13

Analyzed: 26-Aug-13

| | | | | | | | | | | | | | |
|----------|----|-----|------|-----|------------|-----|--|-----|-----------|------|--|--|--|
| (DFPBDE) | NA | 93 | | | % Recovery | 100 | | 93 | 50 - 150% | PASS | | | |
| (FTBDE) | NA | 107 | | | % Recovery | 100 | | 107 | 50 - 150% | PASS | | | |
| PBDE017 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | | | |
| PBDE028 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | | | |
| PBDE047 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | | | |



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CA ELAP #2769

PolyBrominated Diphenyl Ethers

QUALITY CONTROL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | SPIKE LEVEL | SOURCE RESULT | ACCURACY % | PRECISION % | QA CODE |
|---------|----------|--------|------|-----|----------|-------------|---------------|------------|-------------|---------|
| | | | | | | | | LIMITS | LIMITS | |
| PBDE049 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |
| PBDE066 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |
| PBDE071 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |
| PBDE085 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |
| PBDE099 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |
| PBDE100 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |
| PBDE138 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |
| PBDE153 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |
| PBDE154 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |
| PBDE183 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |
| PBDE190 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |
| PBDE209 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | |

Sample ID: 21733-BS1

B13-8382

Matrix: Sediment

Sampled: 10-Jul-13

11:04

Received: 13-Jul-13

Method: EPA 8270C-NCI

Batch ID: O-6003

Prepared: 15-Aug-13

Analyzed: 26-Aug-13

| | | | | | | | | | | |
|----------|----|-------|------|-----|------------|------|---|-----|-----------|------|
| (DFPBDE) | NA | 101 | | | % Recovery | 100 | 0 | 101 | 50 - 150% | PASS |
| (FTBDE) | NA | 110 | | | % Recovery | 100 | 0 | 110 | 50 - 150% | PASS |
| PBDE017 | NA | 439.3 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 110 | 50 - 150% | PASS |
| PBDE028 | NA | 465.5 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 116 | 50 - 150% | PASS |
| PBDE047 | NA | 429.7 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 107 | 50 - 150% | PASS |
| PBDE049 | NA | 407.7 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 102 | 50 - 150% | PASS |
| PBDE066 | NA | 444.3 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 111 | 50 - 150% | PASS |
| PBDE071 | NA | 421.9 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 105 | 50 - 150% | PASS |
| PBDE085 | NA | 414 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 103 | 50 - 150% | PASS |
| PBDE099 | NA | 384 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 96 | 50 - 150% | PASS |
| PBDE100 | NA | 403 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 101 | 50 - 150% | PASS |
| PBDE138 | NA | 415 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 104 | 50 - 150% | PASS |
| PBDE153 | NA | 437 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 109 | 50 - 150% | PASS |
| PBDE154 | NA | 396 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 99 | 50 - 150% | PASS |
| PBDE183 | NA | 377.2 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 94 | 50 - 150% | PASS |
| PBDE190 | NA | 429 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 107 | 50 - 150% | PASS |
| PBDE209 | NA | 2225 | 0.05 | 0.1 | ng/dry g | 2000 | 0 | 111 | 50 - 150% | PASS |



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CA ELAP #2769

PolyBrominated Diphenyl Ethers

QUALITY CONTROL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | SPIKE LEVEL | SOURCE RESULT | ACCURACY % | PRECISION % | QA CODE |
|---------|----------|--------|-----|----|-------|-------------|---------------|------------|-------------|---------|
| | | | | | | | | LIMITS | LIMITS | |

Sample ID: 21733-BS2

B13-8382

Matrix: Sediment

Sampled: 10-Jul-13

11:04

Received: 13-Jul-13

Method: EPA 8270C-NCI

Batch ID: O-6003

Prepared: 15-Aug-13

Analyzed: 26-Aug-13

| | | | | | | | | | | | | | |
|----------|----|-------|------|-----|------------|------|---|-----|-----------|------|---|----|------|
| (DFPBDE) | NA | 99 | | | % Recovery | 100 | 0 | 99 | 50 - 150% | PASS | 2 | 25 | PASS |
| (FTBDE) | NA | 113 | | | % Recovery | 100 | 0 | 113 | 50 - 150% | PASS | 3 | 25 | PASS |
| PBDE017 | NA | 433 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 108 | 50 - 150% | PASS | 2 | 25 | PASS |
| PBDE028 | NA | 456 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 114 | 50 - 150% | PASS | 2 | 25 | PASS |
| PBDE047 | NA | 408.4 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 102 | 50 - 150% | PASS | 5 | 25 | PASS |
| PBDE049 | NA | 415 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 104 | 50 - 150% | PASS | 2 | 25 | PASS |
| PBDE066 | NA | 438.8 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 110 | 50 - 150% | PASS | 1 | 25 | PASS |
| PBDE071 | NA | 412 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 103 | 50 - 150% | PASS | 2 | 25 | PASS |
| PBDE085 | NA | 449 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 112 | 50 - 150% | PASS | 7 | 25 | PASS |
| PBDE099 | NA | 395.4 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 99 | 50 - 150% | PASS | 3 | 25 | PASS |
| PBDE100 | NA | 400 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 100 | 50 - 150% | PASS | 1 | 25 | PASS |
| PBDE138 | NA | 428.9 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 107 | 50 - 150% | PASS | 3 | 25 | PASS |
| PBDE153 | NA | 434.7 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 109 | 50 - 150% | PASS | 0 | 25 | PASS |
| PBDE154 | NA | 400 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 100 | 50 - 150% | PASS | 1 | 25 | PASS |
| PBDE183 | NA | 384.5 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 96 | 50 - 150% | PASS | 2 | 25 | PASS |
| PBDE190 | NA | 420.3 | 0.05 | 0.1 | ng/dry g | 400 | 0 | 105 | 50 - 150% | PASS | 2 | 25 | PASS |
| PBDE209 | NA | 2293 | 0.05 | 0.1 | ng/dry g | 2000 | 0 | 115 | 50 - 150% | PASS | 4 | 25 | PASS |

Sample ID: 21744-MS1

B13-8308

Matrix: Sediment

Sampled: 11-Jul-13

17:06

Received: 13-Jul-13

Method: EPA 8270C-NCI

Batch ID: O-6003

Prepared: 15-Aug-13

Analyzed: 26-Aug-13

| | | | | | | | | | | | | | |
|----------|----|------|------|-----|------------|------|---|-----|-----------|------|--|--|--|
| (DFPBDE) | NA | 99 | | | % Recovery | 100 | 0 | 99 | 50 - 150% | PASS | | | |
| (FTBDE) | NA | 112 | | | % Recovery | 100 | 0 | 112 | 50 - 150% | PASS | | | |
| PBDE017 | NA | 6.54 | 0.05 | 0.1 | ng/dry g | 5.84 | 0 | 112 | 50 - 150% | PASS | | | |
| PBDE028 | NA | 6.76 | 0.05 | 0.1 | ng/dry g | 5.84 | 0 | 116 | 50 - 150% | PASS | | | |
| PBDE047 | NA | 6.42 | 0.05 | 0.1 | ng/dry g | 5.84 | 0 | 110 | 50 - 150% | PASS | | | |
| PBDE049 | NA | 6.11 | 0.05 | 0.1 | ng/dry g | 5.84 | 0 | 105 | 50 - 150% | PASS | | | |
| PBDE066 | NA | 6.78 | 0.05 | 0.1 | ng/dry g | 5.84 | 0 | 116 | 50 - 150% | PASS | | | |
| PBDE071 | NA | 6.1 | 0.05 | 0.1 | ng/dry g | 5.84 | 0 | 104 | 50 - 150% | PASS | | | |
| PBDE085 | NA | 6.53 | 0.05 | 0.1 | ng/dry g | 5.84 | 0 | 112 | 50 - 150% | PASS | | | |



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CA ELAP #2769

PolyBrominated Diphenyl Ethers

QUALITY CONTROL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | SPIKE LEVEL | SOURCE RESULT | ACCURACY | | PRECISION | | QA CODE |
|---------|----------|--------|------|-----|----------|-------------|---------------|----------|-----------|-----------|--------|---------|
| | | | | | | | | % | LIMITS | % | LIMITS | |
| PBDE099 | NA | 5.96 | 0.05 | 0.1 | ng/dry g | 5.84 | 0 | 102 | 50 - 150% | PASS | | |
| PBDE100 | NA | 6.06 | 0.05 | 0.1 | ng/dry g | 5.84 | 0 | 104 | 50 - 150% | PASS | | |
| PBDE138 | NA | 6.23 | 0.05 | 0.1 | ng/dry g | 5.84 | 0 | 107 | 50 - 150% | PASS | | |
| PBDE153 | NA | 6.67 | 0.05 | 0.1 | ng/dry g | 5.84 | 0 | 114 | 50 - 150% | PASS | | |
| PBDE154 | NA | 5.99 | 0.05 | 0.1 | ng/dry g | 5.84 | 0 | 103 | 50 - 150% | PASS | | |
| PBDE183 | NA | 5.68 | 0.05 | 0.1 | ng/dry g | 5.84 | 0 | 97 | 50 - 150% | PASS | | |
| PBDE190 | NA | 6.24 | 0.05 | 0.1 | ng/dry g | 5.84 | 0 | 107 | 50 - 150% | PASS | | |
| PBDE209 | NA | 28.29 | 0.05 | 0.1 | ng/dry g | 29.21 | 0 | 97 | 50 - 150% | PASS | | |

Sample ID: 21744-MS2

B13-8308

Matrix: Sediment

Sampled: 11-Jul-13

17:06

Received: 13-Jul-13

Method: EPA 8270C-NCI

Batch ID: O-6003

Prepared: 15-Aug-13

Analyzed: 26-Aug-13

| | | | | | | | | | | | | | |
|----------|----|-------|------|-----|------------|-------|---|-----|-----------|------|---|----|------|
| (DFPBDE) | NA | 95 | | | % Recovery | 100 | 0 | 95 | 50 - 150% | PASS | 4 | 25 | PASS |
| (FTBDE) | NA | 110.3 | | | % Recovery | 100 | 0 | 110 | 50 - 150% | PASS | 2 | 25 | PASS |
| PBDE017 | NA | 6.59 | 0.05 | 0.1 | ng/dry g | 5.65 | 0 | 117 | 50 - 150% | PASS | 4 | 25 | PASS |
| PBDE028 | NA | 6.58 | 0.05 | 0.1 | ng/dry g | 5.65 | 0 | 116 | 50 - 150% | PASS | 0 | 25 | PASS |
| PBDE047 | NA | 6.21 | 0.05 | 0.1 | ng/dry g | 5.65 | 0 | 110 | 50 - 150% | PASS | 0 | 25 | PASS |
| PBDE049 | NA | 5.97 | 0.05 | 0.1 | ng/dry g | 5.65 | 0 | 106 | 50 - 150% | PASS | 1 | 25 | PASS |
| PBDE066 | NA | 6.3 | 0.05 | 0.1 | ng/dry g | 5.65 | 0 | 112 | 50 - 150% | PASS | 4 | 25 | PASS |
| PBDE071 | NA | 5.81 | 0.05 | 0.1 | ng/dry g | 5.65 | 0 | 103 | 50 - 150% | PASS | 1 | 25 | PASS |
| PBDE085 | NA | 6.18 | 0.05 | 0.1 | ng/dry g | 5.65 | 0 | 109 | 50 - 150% | PASS | 3 | 25 | PASS |
| PBDE099 | NA | 5.32 | 0.05 | 0.1 | ng/dry g | 5.65 | 0 | 94 | 50 - 150% | PASS | 8 | 25 | PASS |
| PBDE100 | NA | 5.62 | 0.05 | 0.1 | ng/dry g | 5.65 | 0 | 99 | 50 - 150% | PASS | 5 | 25 | PASS |
| PBDE138 | NA | 6.21 | 0.05 | 0.1 | ng/dry g | 5.65 | 0 | 110 | 50 - 150% | PASS | 3 | 25 | PASS |
| PBDE153 | NA | 5.9 | 0.05 | 0.1 | ng/dry g | 5.65 | 0 | 104 | 50 - 150% | PASS | 9 | 25 | PASS |
| PBDE154 | NA | 5.54 | 0.05 | 0.1 | ng/dry g | 5.65 | 0 | 98 | 50 - 150% | PASS | 5 | 25 | PASS |
| PBDE183 | NA | 5.38 | 0.05 | 0.1 | ng/dry g | 5.65 | 0 | 95 | 50 - 150% | PASS | 2 | 25 | PASS |
| PBDE190 | NA | 5.81 | 0.05 | 0.1 | ng/dry g | 5.65 | 0 | 103 | 50 - 150% | PASS | 4 | 25 | PASS |
| PBDE209 | NA | 29.27 | 0.05 | 0.1 | ng/dry g | 28.23 | 0 | 104 | 50 - 150% | PASS | 7 | 25 | PASS |

Sample ID: 21744-R2

B13-8308

Matrix: Sediment

Sampled: 11-Jul-13

17:06

Received: 13-Jul-13

Method: EPA 8270C-NCI

Batch ID: O-6003

Prepared: 15-Aug-13

Analyzed: 26-Aug-13

| | | | | | | | | | | | | | |
|----------|----|----|--|--|------------|-----|--|----|-----------|------|---|----|------|
| (DFPBDE) | NA | 97 | | | % Recovery | 100 | | 97 | 50 - 150% | PASS | 3 | 25 | PASS |
|----------|----|----|--|--|------------|-----|--|----|-----------|------|---|----|------|



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CA ELAP #2769

PolyBrominated Diphenyl Ethers

QUALITY CONTROL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | SPIKE LEVEL | SOURCE RESULT | ACCURACY | | PRECISION | | QA CODE |
|---------|----------|--------|------|-----|------------|-------------|---------------|----------|-----------|-----------|--------|---------|
| | | | | | | | | % | LIMITS | % | LIMITS | |
| (FTBDE) | NA | 103 | | | % Recovery | 100 | | 103 | 50 - 150% | PASS | 4 25 | PASS |
| PBDE017 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | 0 25 | PASS |
| PBDE028 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | 0 25 | PASS |
| PBDE047 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | 0 25 | PASS |
| PBDE049 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | 0 25 | PASS |
| PBDE066 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | 0 25 | PASS |
| PBDE071 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | 0 25 | PASS |
| PBDE085 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | 0 25 | PASS |
| PBDE099 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | 0 25 | PASS |
| PBDE100 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | 0 25 | PASS |
| PBDE138 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | 0 25 | PASS |
| PBDE153 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | 0 25 | PASS |
| PBDE154 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | 0 25 | PASS |
| PBDE183 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | 0 25 | PASS |
| PBDE190 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | 0 25 | PASS |
| PBDE209 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | 0 25 | PASS |

Sample ID: 21753-MS1

B13-8397

Matrix: Sediment

Sampled: 12-Jul-13

11:20

Received: 13-Jul-13

Method: EPA 8270C-NCI

Batch ID: O-6001

Prepared: 09-Aug-13

Analyzed: 24-Aug-13

| | | | | | | | | | | | | |
|----------|----|-------|------|-----|------------|-------|-----|-----|-----------|------|--|--|
| (DFPBDE) | NA | 97 | | | % Recovery | 100 | 0 | 97 | 50 - 150% | PASS | | |
| (FTBDE) | NA | 112 | | | % Recovery | 100 | 0 | 112 | 50 - 150% | PASS | | |
| PBDE017 | NA | 14.21 | 0.05 | 0.1 | ng/dry g | 12.17 | 0 | 117 | 50 - 150% | PASS | | |
| PBDE028 | NA | 14.12 | 0.05 | 0.1 | ng/dry g | 12.17 | 0 | 116 | 50 - 150% | PASS | | |
| PBDE047 | NA | 13.02 | 0.05 | 0.1 | ng/dry g | 12.17 | 0 | 107 | 50 - 150% | PASS | | |
| PBDE049 | NA | 10.46 | 0.05 | 0.1 | ng/dry g | 12.17 | 0.5 | 82 | 50 - 150% | PASS | | |
| PBDE066 | NA | 14.08 | 0.05 | 0.1 | ng/dry g | 12.17 | 0 | 116 | 50 - 150% | PASS | | |
| PBDE071 | NA | 13.81 | 0.05 | 0.1 | ng/dry g | 12.17 | 0 | 113 | 50 - 150% | PASS | | |
| PBDE085 | NA | 14.69 | 0.05 | 0.1 | ng/dry g | 12.17 | 0 | 121 | 50 - 150% | PASS | | |
| PBDE099 | NA | 14.08 | 0.05 | 0.1 | ng/dry g | 12.17 | 0 | 116 | 50 - 150% | PASS | | |
| PBDE100 | NA | 13.34 | 0.05 | 0.1 | ng/dry g | 12.17 | 0 | 110 | 50 - 150% | PASS | | |
| PBDE138 | NA | 13.23 | 0.05 | 0.1 | ng/dry g | 12.17 | 0 | 109 | 50 - 150% | PASS | | |
| PBDE153 | NA | 15.05 | 0.05 | 0.1 | ng/dry g | 12.17 | 0 | 124 | 50 - 150% | PASS | | |



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CA ELAP #2769

PolyBrominated Diphenyl Ethers

QUALITY CONTROL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | SPIKE LEVEL | SOURCE RESULT | ACCURACY % | PRECISION % | QA CODE |
|---------|----------|--------|------|-----|----------|-------------|---------------|---------------|-------------|---------|
| | | | | | | | | LIMITS | LIMITS | |
| PBDE154 | NA | 12.23 | 0.05 | 0.1 | ng/dry g | 12.17 | 0 | 100 50 - 150% | PASS | |
| PBDE183 | NA | 11.65 | 0.05 | 0.1 | ng/dry g | 12.17 | 0 | 96 50 - 150% | PASS | |
| PBDE190 | NA | 13.56 | 0.05 | 0.1 | ng/dry g | 12.17 | 0 | 111 50 - 150% | PASS | |
| PBDE209 | NA | 46.47 | 0.05 | 0.1 | ng/dry g | 60.86 | 0 | 76 50 - 150% | PASS | |

Sample ID: 21753-MS2

B13-8397

Method: EPA 8270C-NCI

Matrix: Sediment

Batch ID: O-6001

Sampled: 12-Jul-13

11:20

Received: 13-Jul-13

Prepared: 09-Aug-13

Analyzed: 24-Aug-13

| | | | | | | | | | | | | |
|----------|----|-------|------|-----|------------|-------|-----|---------------|------|----|----|------|
| (DFPBDE) | NA | 101 | | | % Recovery | 100 | 0 | 101 50 - 150% | PASS | 4 | 25 | PASS |
| (FTBDE) | NA | 115 | | | % Recovery | 100 | 0 | 115 50 - 150% | PASS | 3 | 25 | PASS |
| PBDE017 | NA | 15.65 | 0.05 | 0.1 | ng/dry g | 13.31 | 0 | 118 50 - 150% | PASS | 1 | 25 | PASS |
| PBDE028 | NA | 15.65 | 0.05 | 0.1 | ng/dry g | 13.31 | 0 | 118 50 - 150% | PASS | 2 | 25 | PASS |
| PBDE047 | NA | 14.42 | 0.05 | 0.1 | ng/dry g | 13.31 | 0 | 108 50 - 150% | PASS | 1 | 25 | PASS |
| PBDE049 | NA | 12.71 | 0.05 | 0.1 | ng/dry g | 13.31 | 0.5 | 92 50 - 150% | PASS | 11 | 25 | PASS |
| PBDE066 | NA | 13.97 | 0.05 | 0.1 | ng/dry g | 13.31 | 0 | 105 50 - 150% | PASS | 10 | 25 | PASS |
| PBDE071 | NA | 14.58 | 0.05 | 0.1 | ng/dry g | 13.31 | 0 | 110 50 - 150% | PASS | 3 | 25 | PASS |
| PBDE085 | NA | 16.24 | 0.05 | 0.1 | ng/dry g | 13.31 | 0 | 122 50 - 150% | PASS | 1 | 25 | PASS |
| PBDE099 | NA | 15.81 | 0.05 | 0.1 | ng/dry g | 13.31 | 0 | 119 50 - 150% | PASS | 3 | 25 | PASS |
| PBDE100 | NA | 14.08 | 0.05 | 0.1 | ng/dry g | 13.31 | 0 | 106 50 - 150% | PASS | 4 | 25 | PASS |
| PBDE138 | NA | 14.06 | 0.05 | 0.1 | ng/dry g | 13.31 | 0 | 106 50 - 150% | PASS | 3 | 25 | PASS |
| PBDE153 | NA | 17.16 | 0.05 | 0.1 | ng/dry g | 13.31 | 0 | 129 50 - 150% | PASS | 4 | 25 | PASS |
| PBDE154 | NA | 13.97 | 0.05 | 0.1 | ng/dry g | 13.31 | 0 | 105 50 - 150% | PASS | 5 | 25 | PASS |
| PBDE183 | NA | 12.98 | 0.05 | 0.1 | ng/dry g | 13.31 | 0 | 98 50 - 150% | PASS | 2 | 25 | PASS |
| PBDE190 | NA | 14.53 | 0.05 | 0.1 | ng/dry g | 13.31 | 0 | 109 50 - 150% | PASS | 2 | 25 | PASS |
| PBDE209 | NA | 45.62 | 0.05 | 0.1 | ng/dry g | 66.55 | 0 | 69 50 - 150% | PASS | 10 | 25 | PASS |

Sample ID: 21753-R2

B13-8397

Method: EPA 8270C-NCI

Matrix: Sediment

Batch ID: O-6001

Sampled: 12-Jul-13

11:20

Received: 13-Jul-13

Prepared: 09-Aug-13

Analyzed: 24-Aug-13

| | | | | | | | | | | | | |
|----------|----|-----|------|-----|------------|-----|--|---------------|------|---|----|------|
| (DFPBDE) | NA | 88 | | | % Recovery | 100 | | 88 50 - 150% | PASS | 6 | 25 | PASS |
| (FTBDE) | NA | 117 | | | % Recovery | 100 | | 117 50 - 150% | PASS | 7 | 25 | PASS |
| PBDE017 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS |
| PBDE028 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS |
| PBDE047 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS |



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CA ELAP #2769

PolyBrominated Diphenyl Ethers

QUALITY CONTROL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | SPIKE LEVEL | SOURCE RESULT | ACCURACY % | PRECISION % | PRECISION LIMITS | QA CODE | |
|---------|----------|--------|------|-----|----------|-------------|---------------|------------|-------------|------------------|---------|----|
| PBDE049 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | 181 | 25 | FAIL | SL |
| PBDE066 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | 0 | 25 | PASS | |
| PBDE071 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | 0 | 25 | PASS | |
| PBDE085 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | 0 | 25 | PASS | |
| PBDE099 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | 0 | 25 | PASS | |
| PBDE100 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | 0 | 25 | PASS | |
| PBDE138 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | 0 | 25 | PASS | |
| PBDE153 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | 0 | 25 | PASS | |
| PBDE154 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | 0 | 25 | PASS | |
| PBDE183 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | 0 | 25 | PASS | |
| PBDE190 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | 0 | 25 | PASS | |
| PBDE209 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | 0 | 25 | PASS | |

Sample ID: 21764-MS1

B13-8356

Method: EPA 8270C-NCI

Matrix: Sediment

Batch ID: O-6005

Sampled: 13-Jul-13

9:22

Received: 13-Jul-13

Prepared: 24-Aug-13

Analyzed: 06-Sep-13

| | | | | | | | | | | | |
|----------|----|-------|------|-----|------------|-------|------|-----|-----------|------|--|
| (DFPBDE) | NA | 122 | | | % Recovery | 100 | 0 | 122 | 50 - 150% | PASS | |
| (FTBDE) | NA | 131 | | | % Recovery | 100 | 0 | 131 | 50 - 150% | PASS | |
| PBDE017 | NA | 37.42 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 81 | 50 - 150% | PASS | |
| PBDE028 | NA | 40.79 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 88 | 50 - 150% | PASS | |
| PBDE047 | NA | 43.36 | 0.05 | 0.1 | ng/dry g | 46.44 | 0.05 | 93 | 50 - 150% | PASS | |
| PBDE049 | NA | 39.92 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 86 | 50 - 150% | PASS | |
| PBDE066 | NA | 46.87 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 101 | 50 - 150% | PASS | |
| PBDE071 | NA | 48.06 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 103 | 50 - 150% | PASS | |
| PBDE085 | NA | 46.56 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 100 | 50 - 150% | PASS | |
| PBDE099 | NA | 45.52 | 0.05 | 0.1 | ng/dry g | 46.44 | 0.2 | 98 | 50 - 150% | PASS | |
| PBDE100 | NA | 45.31 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 98 | 50 - 150% | PASS | |
| PBDE138 | NA | 45.23 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 97 | 50 - 150% | PASS | |
| PBDE153 | NA | 43.67 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 94 | 50 - 150% | PASS | |
| PBDE154 | NA | 43.99 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 95 | 50 - 150% | PASS | |
| PBDE183 | NA | 33.41 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 72 | 50 - 150% | PASS | |
| PBDE190 | NA | 41.71 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 90 | 50 - 150% | PASS | |
| PBDE209 | NA | 42.09 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 91 | 50 - 150% | PASS | |



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CA ELAP #2769

PolyBrominated Diphenyl Ethers

QUALITY CONTROL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | SPIKE LEVEL | SOURCE RESULT | ACCURACY % | PRECISION % | QA CODE |
|---------|----------|--------|-----|----|-------|-------------|---------------|------------|-------------|---------|
| | | | | | | | | LIMITS | LIMITS | |

Sample ID: 21764-MS2

B13-8356

Matrix: Sediment

Sampled: 13-Jul-13

9:22

Received: 13-Jul-13

Method: EPA 8270C-NCI

Batch ID: O-6005

Prepared: 24-Aug-13

Analyzed: 06-Sep-13

| | | | | | | | | | | | | | |
|----------|----|-------|------|-----|------------|-------|------|-----|-----------|------|----|----|------|
| (DFPBDE) | NA | 100 | | | % Recovery | 100 | 0 | 100 | 50 - 150% | PASS | 20 | 25 | PASS |
| (FTBDE) | NA | 136 | | | % Recovery | 100 | 0 | 136 | 50 - 150% | PASS | 4 | 25 | PASS |
| PBDE017 | NA | 43.72 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 94 | 50 - 150% | PASS | 15 | 25 | PASS |
| PBDE028 | NA | 45.12 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 97 | 50 - 150% | PASS | 10 | 25 | PASS |
| PBDE047 | NA | 38.49 | 0.05 | 0.1 | ng/dry g | 46.44 | 0.05 | 83 | 50 - 150% | PASS | 11 | 25 | PASS |
| PBDE049 | NA | 44.83 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 97 | 50 - 150% | PASS | 12 | 25 | PASS |
| PBDE066 | NA | 44.71 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 96 | 50 - 150% | PASS | 5 | 25 | PASS |
| PBDE071 | NA | 45.15 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 97 | 50 - 150% | PASS | 6 | 25 | PASS |
| PBDE085 | NA | 47.54 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 102 | 50 - 150% | PASS | 2 | 25 | PASS |
| PBDE099 | NA | 37.84 | 0.05 | 0.1 | ng/dry g | 46.44 | 0.2 | 81 | 50 - 150% | PASS | 19 | 25 | PASS |
| PBDE100 | NA | 47.65 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 103 | 50 - 150% | PASS | 5 | 25 | PASS |
| PBDE138 | NA | 43.68 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 94 | 50 - 150% | PASS | 3 | 25 | PASS |
| PBDE153 | NA | 42.64 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 92 | 50 - 150% | PASS | 2 | 25 | PASS |
| PBDE154 | NA | 46.24 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 100 | 50 - 150% | PASS | 5 | 25 | PASS |
| PBDE183 | NA | 32.48 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 70 | 50 - 150% | PASS | 3 | 25 | PASS |
| PBDE190 | NA | 42.38 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 91 | 50 - 150% | PASS | 1 | 25 | PASS |
| PBDE209 | NA | 35.64 | 0.05 | 0.1 | ng/dry g | 46.44 | 0 | 77 | 50 - 150% | PASS | 17 | 25 | PASS |

Sample ID: 21764-R2

B13-8356

Matrix: Sediment

Sampled: 13-Jul-13

9:22

Received: 13-Jul-13

Method: EPA 8270C-NCI

Batch ID: O-6005

Prepared: 24-Aug-13

Analyzed: 06-Sep-13

| | | | | | | | | | | | | | |
|----------|----|-----|------|-----|------------|-----|--|-----|-----------|------|----|----|---------|
| (DFPBDE) | NA | 136 | | | % Recovery | 100 | | 136 | 50 - 150% | PASS | 20 | 25 | PASS |
| (FTBDE) | NA | 118 | | | % Recovery | 100 | | 118 | 50 - 150% | PASS | 1 | 25 | PASS |
| PBDE017 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | 0 | 25 | PASS |
| PBDE028 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | 0 | 25 | PASS |
| PBDE047 | NA | 0.1 | 0.05 | 0.1 | ng/dry g | | | | | | 67 | 25 | FAIL SL |
| PBDE049 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | 0 | 25 | PASS |
| PBDE066 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | 0 | 25 | PASS |
| PBDE071 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | 0 | 25 | PASS |
| PBDE085 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | | 0 | 25 | PASS |



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CA ELAP #2769

PolyBrominated Diphenyl Ethers

QUALITY CONTROL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | SPIKE LEVEL | SOURCE RESULT | ACCURACY | | PRECISION | | QA CODE | |
|---------|----------|--------|------|-----|----------|----------------|------------------|----------|--------|-----------|--------|---------|----|
| | | | | | | | | % | LIMITS | % | LIMITS | | |
| PBDE099 | NA | 0.4 | 0.05 | 0.1 | ng/dry g | | | | | 156 | 25 | FAIL | SL |
| PBDE100 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS | |
| PBDE138 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS | |
| PBDE153 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS | |
| PBDE154 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS | |
| PBDE183 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS | |
| PBDE190 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS | |
| PBDE209 | NA | ND | 0.05 | 0.1 | ng/dry g | | | | | 0 | 25 | PASS | |



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CA ELAP #2769

Polynuclear Aromatic Hydrocarbons

QUALITY CONTROL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | SPIKE LEVEL | SOURCE RESULT | ACCURACY % LIMITS | PRECISION % LIMITS | QA CODE |
|---------|----------|--------|-----|----|-------|-------------|---------------|-------------------|--------------------|---------|
|---------|----------|--------|-----|----|-------|-------------|---------------|-------------------|--------------------|---------|

Sample ID: 19187-CRM1

QAQC CRM - SRM 1944

Matrix: Sediment

Sampled:

Received:

Method: EPA 8270C

Batch ID: O-6005

Prepared: 24-Aug-13

Analyzed: 06-Sep-13

| | | | | | | | | | | |
|-------------------------|----|--------|---|---|------------|------|--|---------------|------|---|
| (d10-Acenaphthene) | NA | 95 | | | % Recovery | 100 | | 95 50 - 150% | PASS | |
| (d10-Phenanthrene) | NA | 92 | | | % Recovery | 100 | | 92 50 - 150% | PASS | |
| (d12-Chrysene) | NA | 76 | | | % Recovery | 100 | | 76 50 - 150% | PASS | |
| (d8-Naphthalene) | NA | 73 | | | % Recovery | 100 | | 73 25 - 125% | PASS | |
| 1-Methylnaphthalene | NA | 362.2 | 1 | 5 | µg/dry g | 520 | | 70 70 - 130% | PASS | |
| 1-Methylphenanthrene | NA | 1233.4 | 1 | 5 | µg/dry g | 1700 | | 73 70 - 130% | PASS | |
| 2,6-Dimethylnaphthalene | NA | 580 | 1 | 5 | µg/dry g | 790 | | 73 70 - 130% | PASS | |
| 2-Methylnaphthalene | NA | 803.3 | 1 | 5 | µg/dry g | 950 | | 85 70 - 130% | PASS | |
| Acenaphthene | NA | 268.5 | 1 | 5 | µg/dry g | 570 | | 47 70 - 130% | FAIL | R |
| Anthracene | NA | 1998.7 | 1 | 5 | µg/dry g | 1770 | | 113 70 - 130% | PASS | |
| Benz[a]anthracene | NA | 4415.3 | 1 | 5 | µg/dry g | 4720 | | 94 70 - 130% | PASS | |
| Benzo[a]pyrene | NA | 3154.3 | 1 | 5 | µg/dry g | 4300 | | 73 70 - 130% | PASS | |
| Benzo[b]fluoranthene | NA | 2996 | 1 | 5 | µg/dry g | 3870 | | 77 70 - 130% | PASS | |
| Benzo[e]pyrene | NA | 2755 | 1 | 5 | µg/dry g | 3280 | | 84 70 - 130% | PASS | |
| Benzo[g,h,i]perylene | NA | 2105.7 | 1 | 5 | µg/dry g | 2840 | | 74 70 - 130% | PASS | |
| Benzo[k]fluoranthene | NA | 3140.9 | 1 | 5 | µg/dry g | 4390 | | 72 70 - 130% | PASS | |
| Biphenyl | NA | 231.7 | 1 | 5 | µg/dry g | 320 | | 72 70 - 130% | PASS | |
| Chrysene | NA | 4541.2 | 1 | 5 | µg/dry g | 5900 | | 77 70 - 130% | PASS | |
| Dibenz[a,h]anthracene | NA | 427.7 | 1 | 5 | µg/dry g | 424 | | 101 70 - 130% | PASS | |
| Dibenzothiophene | NA | 550.9 | 1 | 5 | µg/dry g | 620 | | 89 70 - 130% | PASS | |
| Fluoranthene | NA | 8859 | 1 | 5 | µg/dry g | 8920 | | 99 70 - 130% | PASS | |
| Fluorene | NA | 686 | 1 | 5 | µg/dry g | 850 | | 81 70 - 130% | PASS | |
| Indeno[1,2,3-c,d]pyrene | NA | 3149 | 1 | 5 | µg/dry g | 2780 | | 113 70 - 130% | PASS | |
| Naphthalene | NA | 1219.8 | 1 | 5 | µg/dry g | 1650 | | 74 70 - 130% | PASS | |
| Perylene | NA | 1377.5 | 1 | 5 | µg/dry g | 1170 | | 118 70 - 130% | PASS | |
| Phenanthrene | NA | 4870.8 | 1 | 5 | µg/dry g | 5270 | | 92 70 - 130% | PASS | |
| Pyrene | NA | 8356.4 | 1 | 5 | µg/dry g | 9700 | | 86 70 - 130% | PASS | |

Sample ID: 21731-B1

QAQC Procedural Blank

Matrix: DI Water

Sampled:

Received:



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CA ELAP #2769

Polynuclear Aromatic Hydrocarbons

QUALITY CONTROL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | SPIKE LEVEL | SOURCE RESULT | ACCURACY % | PRECISION % | QA CODE |
|----------------------------|----------|------------------|-----|---------------------|------------|---------------------|---------------|---------------|-------------|---------|
| | | | | | | | | LIMITS | LIMITS | |
| Method: EPA 8270C | | Batch ID: O-6001 | | Prepared: 09-Aug-13 | | Analyzed: 30-Aug-13 | | | | |
| (d10-Acenaphthene) | NA | 75 | | | % Recovery | 100 | | 75 50 - 150% | PASS | |
| (d10-Phenanthrene) | NA | 84 | | | % Recovery | 100 | | 84 50 - 150% | PASS | |
| (d12-Chrysene) | NA | 122 | | | % Recovery | 100 | | 122 50 - 150% | PASS | |
| (d8-Naphthalene) | NA | 62 | | | % Recovery | 100 | | 62 25 - 125% | PASS | |
| 1-Methylnaphthalene | NA | ND | 1 | 5 | ng/dry g | | | | | |
| 1-Methylphenanthrene | NA | ND | 1 | 5 | ng/dry g | | | | | |
| 2,3,5-Trimethylnaphthalene | NA | ND | 1 | 5 | ng/dry g | | | | | |
| 2,6-Dimethylnaphthalene | NA | ND | 1 | 5 | ng/dry g | | | | | |
| 2-Methylnaphthalene | NA | ND | 1 | 5 | ng/dry g | | | | | |
| Acenaphthene | NA | ND | 1 | 5 | ng/dry g | | | | | |
| Acenaphthylene | NA | ND | 1 | 5 | ng/dry g | | | | | |
| Anthracene | NA | ND | 1 | 5 | ng/dry g | | | | | |
| Benz[a]anthracene | NA | ND | 1 | 5 | ng/dry g | | | | | |
| Benzo[a]pyrene | NA | ND | 1 | 5 | ng/dry g | | | | | |
| Benzo[b]fluoranthene | NA | ND | 1 | 5 | ng/dry g | | | | | |
| Benzo[e]pyrene | NA | ND | 1 | 5 | ng/dry g | | | | | |
| Benzo[g,h,i]perylene | NA | ND | 1 | 5 | ng/dry g | | | | | |
| Benzo[k]fluoranthene | NA | ND | 1 | 5 | ng/dry g | | | | | |
| Biphenyl | NA | ND | 1 | 5 | ng/dry g | | | | | |
| Chrysene | NA | ND | 1 | 5 | ng/dry g | | | | | |
| Dibenz[a,h]anthracene | NA | ND | 1 | 5 | ng/dry g | | | | | |
| Dibenzothiophene | NA | ND | 1 | 5 | ng/dry g | | | | | |
| Fluoranthene | NA | ND | 1 | 5 | ng/dry g | | | | | |
| Fluorene | NA | ND | 1 | 5 | ng/dry g | | | | | |
| Indeno[1,2,3-c,d]pyrene | NA | ND | 1 | 5 | ng/dry g | | | | | |
| Naphthalene | NA | ND | 1 | 5 | ng/dry g | | | | | |
| Perylene | NA | ND | 1 | 5 | ng/dry g | | | | | |
| Phenanthrene | NA | ND | 1 | 5 | ng/dry g | | | | | |
| Pyrene | NA | ND | 1 | 5 | ng/dry g | | | | | |

Sample ID: 21731-BS1

QAQC Procedural Blank

Matrix: DI Water

Sampled:

Received:

PHYSIS Project ID: 1307001-001

Client: AMEC

Project: POLA/POLB Harbor Toxics TMDL and Bight '13



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CA ELAP #2769

Polynuclear Aromatic Hydrocarbons

QUALITY CONTROL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | SPIKE LEVEL | SOURCE RESULT | ACCURACY % | PRECISION % | QA CODE |
|----------------------------|----------|------------------|-----|---------------------|------------|---------------------|---------------|------------|-------------|---------|
| | | LIMITS | | | | | | LIMITS | | |
| Method: EPA 8270C | | Batch ID: O-6001 | | Prepared: 09-Aug-13 | | Analyzed: 30-Aug-13 | | | | |
| (d10-Acenaphthene) | NA | 96 | | | % Recovery | 100 | 0 | 96 | 50 - 150% | PASS |
| (d10-Phenanthrene) | NA | 106 | | | % Recovery | 100 | 0 | 106 | 50 - 150% | PASS |
| (d12-Chrysene) | NA | 120 | | | % Recovery | 100 | 0 | 120 | 50 - 150% | PASS |
| (d8-Naphthalene) | NA | 90 | | | % Recovery | 100 | 0 | 90 | 25 - 125% | PASS |
| 1-Methylnaphthalene | NA | 431.9 | 1 | 5 | ng/dry g | 400 | 0 | 108 | 50 - 150% | PASS |
| 1-Methylphenanthrene | NA | 411.8 | 1 | 5 | ng/dry g | 400 | 0 | 103 | 50 - 150% | PASS |
| 2,3,5-Trimethylnaphthalene | NA | 411.2 | 1 | 5 | ng/dry g | 400 | 0 | 103 | 50 - 150% | PASS |
| 2,6-Dimethylnaphthalene | NA | 397.7 | 1 | 5 | ng/dry g | 400 | 0 | 99 | 50 - 150% | PASS |
| 2-Methylnaphthalene | NA | 408.5 | 1 | 5 | ng/dry g | 400 | 0 | 102 | 50 - 150% | PASS |
| Acenaphthene | NA | 400 | 1 | 5 | ng/dry g | 400 | 0 | 100 | 50 - 150% | PASS |
| Acenaphthylene | NA | 350.9 | 1 | 5 | ng/dry g | 400 | 0 | 88 | 50 - 150% | PASS |
| Anthracene | NA | 364.4 | 1 | 5 | ng/dry g | 400 | 0 | 91 | 50 - 150% | PASS |
| Benz[a]anthracene | NA | 399.7 | 1 | 5 | ng/dry g | 400 | 0 | 100 | 50 - 150% | PASS |
| Benzo[a]pyrene | NA | 498 | 1 | 5 | ng/dry g | 400 | 0 | 125 | 50 - 150% | PASS |
| Benzo[b]fluoranthene | NA | 464.5 | 1 | 5 | ng/dry g | 400 | 0 | 116 | 50 - 150% | PASS |
| Benzo[e]pyrene | NA | 485.7 | 1 | 5 | ng/dry g | 400 | 0 | 121 | 50 - 150% | PASS |
| Benzo[g,h,i]perylene | NA | 433.3 | 1 | 5 | ng/dry g | 400 | 0 | 108 | 50 - 150% | PASS |
| Benzo[k]fluoranthene | NA | 437.7 | 1 | 5 | ng/dry g | 400 | 0 | 109 | 50 - 150% | PASS |
| Biphenyl | NA | 415.4 | 1 | 5 | ng/dry g | 400 | 0 | 104 | 50 - 150% | PASS |
| Chrysene | NA | 463.3 | 1 | 5 | ng/dry g | 400 | 0 | 116 | 50 - 150% | PASS |
| Dibenz[a,h]anthracene | NA | 446.6 | 1 | 5 | ng/dry g | 400 | 0 | 112 | 50 - 150% | PASS |
| Dibenzothiophene | NA | 430.3 | 1 | 5 | ng/dry g | 400 | 0 | 108 | 50 - 150% | PASS |
| Fluoranthene | NA | 449.1 | 1 | 5 | ng/dry g | 400 | 0 | 112 | 50 - 150% | PASS |
| Fluorene | NA | 401.3 | 1 | 5 | ng/dry g | 400 | 0 | 100 | 50 - 150% | PASS |
| Indeno[1,2,3-c,d]pyrene | NA | 406.9 | 1 | 5 | ng/dry g | 400 | 0 | 102 | 50 - 150% | PASS |
| Naphthalene | NA | 423 | 1 | 5 | ng/dry g | 400 | 0 | 106 | 25 - 125% | PASS |
| Perylene | NA | 406.2 | 1 | 5 | ng/dry g | 400 | 0 | 102 | 50 - 150% | PASS |
| Phenanthrene | NA | 447 | 1 | 5 | ng/dry g | 400 | 0 | 112 | 50 - 150% | PASS |
| Pyrene | NA | 440.1 | 1 | 5 | ng/dry g | 400 | 0 | 110 | 50 - 150% | PASS |

Sample ID: 21731-BS2

QAQC Procedural Blank

Matrix: DI Water

Sampled:

Received:

PHYSIS Project ID: 1307001-001

Client: AMEC

Project: POLA/POLB Harbor Toxics TMDL and Bight '13



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CA ELAP #2769

Polynuclear Aromatic Hydrocarbons

QUALITY CONTROL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | SPIKE LEVEL | SOURCE RESULT | ACCURACY % | PRECISION % | QA CODE |
|----------------------------|----------|------------------|-----|---------------------|------------|---------------------|---------------|------------|----------------|------------|
| | | LIMITS | | | | LIMITS | | | | |
| Method: EPA 8270C | | Batch ID: O-6001 | | Prepared: 09-Aug-13 | | Analyzed: 30-Aug-13 | | | | |
| (d10-Acenaphthene) | NA | 109 | | | % Recovery | 100 | 0 | 109 | 50 - 150% PASS | 13 25 PASS |
| (d10-Phenanthrene) | NA | 118 | | | % Recovery | 100 | 0 | 118 | 50 - 150% PASS | 11 25 PASS |
| (d12-Chrysene) | NA | 132 | | | % Recovery | 100 | 0 | 132 | 50 - 150% PASS | 10 25 PASS |
| (d8-Naphthalene) | NA | 100 | | | % Recovery | 100 | 0 | 100 | 25 - 125% PASS | 11 25 PASS |
| 1-Methylnaphthalene | NA | 481.1 | 1 | 5 | ng/dry g | 400 | 0 | 120 | 50 - 150% PASS | 11 25 PASS |
| 1-Methylphenanthrene | NA | 463.8 | 1 | 5 | ng/dry g | 400 | 0 | 116 | 50 - 150% PASS | 12 25 PASS |
| 2,3,5-Trimethylnaphthalene | NA | 453.4 | 1 | 5 | ng/dry g | 400 | 0 | 113 | 50 - 150% PASS | 9 25 PASS |
| 2,6-Dimethylnaphthalene | NA | 430.8 | 1 | 5 | ng/dry g | 400 | 0 | 108 | 50 - 150% PASS | 9 25 PASS |
| 2-Methylnaphthalene | NA | 446.5 | 1 | 5 | ng/dry g | 400 | 0 | 112 | 50 - 150% PASS | 9 25 PASS |
| Acenaphthene | NA | 438.1 | 1 | 5 | ng/dry g | 400 | 0 | 110 | 50 - 150% PASS | 10 25 PASS |
| Acenaphthylene | NA | 416.2 | 1 | 5 | ng/dry g | 400 | 0 | 104 | 50 - 150% PASS | 17 25 PASS |
| Anthracene | NA | 386.2 | 1 | 5 | ng/dry g | 400 | 0 | 97 | 50 - 150% PASS | 6 25 PASS |
| Benz[a]anthracene | NA | 444.6 | 1 | 5 | ng/dry g | 400 | 0 | 111 | 50 - 150% PASS | 10 25 PASS |
| Benzo[a]pyrene | NA | 498.9 | 1 | 5 | ng/dry g | 400 | 0 | 125 | 50 - 150% PASS | 1 25 PASS |
| Benzo[b]fluoranthene | NA | 567.5 | 1 | 5 | ng/dry g | 400 | 0 | 142 | 50 - 150% PASS | 20 25 PASS |
| Benzo[e]pyrene | NA | 562 | 1 | 5 | ng/dry g | 400 | 0 | 140 | 50 - 150% PASS | 15 25 PASS |
| Benzo[g,h,i]perylene | NA | 440.5 | 1 | 5 | ng/dry g | 400 | 0 | 110 | 50 - 150% PASS | 2 25 PASS |
| Benzo[k]fluoranthene | NA | 516.9 | 1 | 5 | ng/dry g | 400 | 0 | 129 | 50 - 150% PASS | 17 25 PASS |
| Biphenyl | NA | 477 | 1 | 5 | ng/dry g | 400 | 0 | 119 | 50 - 150% PASS | 13 25 PASS |
| Chrysene | NA | 526.3 | 1 | 5 | ng/dry g | 400 | 0 | 132 | 50 - 150% PASS | 13 25 PASS |
| Dibenz[a,h]anthracene | NA | 483.6 | 1 | 5 | ng/dry g | 400 | 0 | 121 | 50 - 150% PASS | 8 25 PASS |
| Dibenzothiophene | NA | 474.2 | 1 | 5 | ng/dry g | 400 | 0 | 119 | 50 - 150% PASS | 10 25 PASS |
| Fluoranthene | NA | 512.3 | 1 | 5 | ng/dry g | 400 | 0 | 128 | 50 - 150% PASS | 13 25 PASS |
| Fluorene | NA | 416.1 | 1 | 5 | ng/dry g | 400 | 0 | 104 | 50 - 150% PASS | 4 25 PASS |
| Indeno[1,2,3-c,d]pyrene | NA | 457.5 | 1 | 5 | ng/dry g | 400 | 0 | 114 | 50 - 150% PASS | 11 25 PASS |
| Naphthalene | NA | 479.3 | 1 | 5 | ng/dry g | 400 | 0 | 120 | 25 - 125% PASS | 12 25 PASS |
| Perylene | NA | 426 | 1 | 5 | ng/dry g | 400 | 0 | 107 | 50 - 150% PASS | 5 25 PASS |
| Phenanthrene | NA | 462 | 1 | 5 | ng/dry g | 400 | 0 | 115 | 50 - 150% PASS | 4 25 PASS |
| Pyrene | NA | 501.1 | 1 | 5 | ng/dry g | 400 | 0 | 125 | 50 - 150% PASS | 13 25 PASS |

Sample ID: 21732-B1

QAQC Procedural Blank

Matrix: DI Water

Sampled:

Received:

PHYSIS Project ID: 1307001-001

Client: AMEC

Project: POLA/POLB Harbor Toxics TMDL and Bight '13



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CA ELAP #2769

Polynuclear Aromatic Hydrocarbons

QUALITY CONTROL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | SPIKE LEVEL | SOURCE RESULT | ACCURACY % LIMITS | PRECISION % LIMITS | QA CODE |
|----------------------------|----------|------------------|-----|---------------------|------------|---------------------|---------------|-------------------|--------------------|---------|
| Method: EPA 8270C | | Batch ID: O-6005 | | Prepared: 24-Aug-13 | | Analyzed: 06-Sep-13 | | | | |
| (d10-Acenaphthene) | NA | 80 | | | % Recovery | 100 | | 80 50 - 150% | PASS | |
| (d10-Phenanthrene) | NA | 80 | | | % Recovery | 100 | | 80 50 - 150% | PASS | |
| (d12-Chrysene) | NA | 82 | | | % Recovery | 100 | | 82 50 - 150% | PASS | |
| (d8-Naphthalene) | NA | 56 | | | % Recovery | 100 | | 56 25 - 125% | PASS | |
| 1-Methylnaphthalene | NA | ND | 1 | 5 | ng/dry g | | | | | |
| 1-Methylphenanthrene | NA | ND | 1 | 5 | ng/dry g | | | | | |
| 2,3,5-Trimethylnaphthalene | NA | ND | 1 | 5 | ng/dry g | | | | | |
| 2,6-Dimethylnaphthalene | NA | ND | 1 | 5 | ng/dry g | | | | | |
| 2-Methylnaphthalene | NA | ND | 1 | 5 | ng/dry g | | | | | |
| Acenaphthene | NA | ND | 1 | 5 | ng/dry g | | | | | |
| Acenaphthylene | NA | ND | 1 | 5 | ng/dry g | | | | | |
| Anthracene | NA | ND | 1 | 5 | ng/dry g | | | | | |
| Benz[a]anthracene | NA | ND | 1 | 5 | ng/dry g | | | | | |
| Benzo[a]pyrene | NA | ND | 1 | 5 | ng/dry g | | | | | |
| Benzo[b]fluoranthene | NA | ND | 1 | 5 | ng/dry g | | | | | |
| Benzo[e]pyrene | NA | ND | 1 | 5 | ng/dry g | | | | | |
| Benzo[g,h,i]perylene | NA | ND | 1 | 5 | ng/dry g | | | | | |
| Benzo[k]fluoranthene | NA | ND | 1 | 5 | ng/dry g | | | | | |
| Biphenyl | NA | ND | 1 | 5 | ng/dry g | | | | | |
| Chrysene | NA | ND | 1 | 5 | ng/dry g | | | | | |
| Dibenz[a,h]anthracene | NA | ND | 1 | 5 | ng/dry g | | | | | |
| Dibenzothiophene | NA | ND | 1 | 5 | ng/dry g | | | | | |
| Fluoranthene | NA | ND | 1 | 5 | ng/dry g | | | | | |
| Fluorene | NA | ND | 1 | 5 | ng/dry g | | | | | |
| Indeno[1,2,3-c,d]pyrene | NA | ND | 1 | 5 | ng/dry g | | | | | |
| Naphthalene | NA | ND | 1 | 5 | ng/dry g | | | | | |
| Perylene | NA | ND | 1 | 5 | ng/dry g | | | | | |
| Phenanthrene | NA | ND | 1 | 5 | ng/dry g | | | | | |
| Pyrene | NA | ND | 1 | 5 | ng/dry g | | | | | |

Sample ID: 21732-BS1

QAQC Procedural Blank

Matrix: DI Water

Sampled:

Received:

PHYSIS Project ID: 1307001-001

Client: AMEC

Project: POLA/POLB Harbor Toxics TMDL and Bight '13



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CA ELAP #2769

Polynuclear Aromatic Hydrocarbons

QUALITY CONTROL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | SPIKE LEVEL | SOURCE RESULT | ACCURACY % | PRECISION % | QA CODE |
|----------------------------|----------|------------------|-----|---------------------|------------|---------------------|---------------|------------|-------------|---------|
| | | LIMITS | | | | | | LIMITS | | |
| Method: EPA 8270C | | Batch ID: O-6005 | | Prepared: 24-Aug-13 | | Analyzed: 06-Sep-13 | | | | |
| (d10-Acenaphthene) | NA | 108 | | | % Recovery | 100 | 0 | 108 | 50 - 150% | PASS |
| (d10-Phenanthrene) | NA | 113 | | | % Recovery | 100 | 0 | 113 | 50 - 150% | PASS |
| (d12-Chrysene) | NA | 125 | | | % Recovery | 100 | 0 | 125 | 50 - 150% | PASS |
| (d8-Naphthalene) | NA | 98 | | | % Recovery | 100 | 0 | 98 | 25 - 125% | PASS |
| 1-Methylnaphthalene | NA | 441.2 | 1 | 5 | ng/dry g | 400 | 0 | 110 | 50 - 150% | PASS |
| 1-Methylphenanthrene | NA | 389.4 | 1 | 5 | ng/dry g | 400 | 0 | 97 | 50 - 150% | PASS |
| 2,3,5-Trimethylnaphthalene | NA | 378.5 | 1 | 5 | ng/dry g | 400 | 0 | 95 | 50 - 150% | PASS |
| 2,6-Dimethylnaphthalene | NA | 362.6 | 1 | 5 | ng/dry g | 400 | 0 | 91 | 50 - 150% | PASS |
| 2-Methylnaphthalene | NA | 346.6 | 1 | 5 | ng/dry g | 400 | 0 | 87 | 50 - 150% | PASS |
| Acenaphthene | NA | 387.8 | 1 | 5 | ng/dry g | 400 | 0 | 97 | 50 - 150% | PASS |
| Acenaphthylene | NA | 355.2 | 1 | 5 | ng/dry g | 400 | 0 | 89 | 50 - 150% | PASS |
| Anthracene | NA | 419.7 | 1 | 5 | ng/dry g | 400 | 0 | 105 | 50 - 150% | PASS |
| Benz[a]anthracene | NA | 352.3 | 1 | 5 | ng/dry g | 400 | 0 | 88 | 50 - 150% | PASS |
| Benzo[a]pyrene | NA | 368.1 | 1 | 5 | ng/dry g | 400 | 0 | 92 | 50 - 150% | PASS |
| Benzo[b]fluoranthene | NA | 393.7 | 1 | 5 | ng/dry g | 400 | 0 | 98 | 50 - 150% | PASS |
| Benzo[e]pyrene | NA | 443.9 | 1 | 5 | ng/dry g | 400 | 0 | 111 | 50 - 150% | PASS |
| Benzo[g,h,i]perylene | NA | 400 | 1 | 5 | ng/dry g | 400 | 0 | 100 | 50 - 150% | PASS |
| Benzo[k]fluoranthene | NA | 407.6 | 1 | 5 | ng/dry g | 400 | 0 | 102 | 50 - 150% | PASS |
| Biphenyl | NA | 346.9 | 1 | 5 | ng/dry g | 400 | 0 | 87 | 50 - 150% | PASS |
| Chrysene | NA | 393.2 | 1 | 5 | ng/dry g | 400 | 0 | 98 | 50 - 150% | PASS |
| Dibenz[a,h]anthracene | NA | 351 | 1 | 5 | ng/dry g | 400 | 0 | 88 | 50 - 150% | PASS |
| Dibenzothiophene | NA | 362.8 | 1 | 5 | ng/dry g | 400 | 0 | 91 | 50 - 150% | PASS |
| Fluoranthene | NA | 422 | 1 | 5 | ng/dry g | 400 | 0 | 105 | 50 - 150% | PASS |
| Fluorene | NA | 341.6 | 1 | 5 | ng/dry g | 400 | 0 | 85 | 50 - 150% | PASS |
| Indeno[1,2,3-c,d]pyrene | NA | 384.9 | 1 | 5 | ng/dry g | 400 | 0 | 96 | 50 - 150% | PASS |
| Naphthalene | NA | 424.7 | 1 | 5 | ng/dry g | 400 | 0 | 106 | 25 - 125% | PASS |
| Perylene | NA | 391.5 | 1 | 5 | ng/dry g | 400 | 0 | 98 | 50 - 150% | PASS |
| Phenanthrene | NA | 353.1 | 1 | 5 | ng/dry g | 400 | 0 | 88 | 50 - 150% | PASS |
| Pyrene | NA | 402.3 | 1 | 5 | ng/dry g | 400 | 0 | 101 | 50 - 150% | PASS |

Sample ID: 21732-BS2

QAQC Procedural Blank

Matrix: DI Water

Sampled:

Received:

PHYSIS Project ID: 1307001-001

Client: AMEC

Project: POLA/POLB Harbor Toxics TMDL and Bight '13



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CA ELAP #2769

Polynuclear Aromatic Hydrocarbons

QUALITY CONTROL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | SPIKE LEVEL | SOURCE RESULT | ACCURACY % | PRECISION % | QA CODE |
|----------------------------|----------|------------------|-----|---------------------|------------|---------------------|---------------|------------|----------------|------------|
| | | LIMITS | | | | | | LIMITS | | |
| Method: EPA 8270C | | Batch ID: O-6005 | | Prepared: 24-Aug-13 | | Analyzed: 06-Sep-13 | | | | |
| (d10-Acenaphthene) | NA | 121 | | | % Recovery | 100 | 0 | 121 | 50 - 150% PASS | 11 25 PASS |
| (d10-Phenanthrene) | NA | 119 | | | % Recovery | 100 | 0 | 119 | 50 - 150% PASS | 5 25 PASS |
| (d12-Chrysene) | NA | 135 | | | % Recovery | 100 | 0 | 135 | 50 - 150% PASS | 8 25 PASS |
| (d8-Naphthalene) | NA | 112 | | | % Recovery | 100 | 0 | 112 | 25 - 125% PASS | 13 25 PASS |
| 1-Methylnaphthalene | NA | 398.6 | 1 | 5 | ng/dry g | 400 | 0 | 100 | 50 - 150% PASS | 10 25 PASS |
| 1-Methylphenanthrene | NA | 441.3 | 1 | 5 | ng/dry g | 400 | 0 | 110 | 50 - 150% PASS | 13 25 PASS |
| 2,3,5-Trimethylnaphthalene | NA | 434.1 | 1 | 5 | ng/dry g | 400 | 0 | 109 | 50 - 150% PASS | 14 25 PASS |
| 2,6-Dimethylnaphthalene | NA | 414.7 | 1 | 5 | ng/dry g | 400 | 0 | 104 | 50 - 150% PASS | 13 25 PASS |
| 2-Methylnaphthalene | NA | 401.1 | 1 | 5 | ng/dry g | 400 | 0 | 100 | 50 - 150% PASS | 14 25 PASS |
| Acenaphthene | NA | 381 | 1 | 5 | ng/dry g | 400 | 0 | 95 | 50 - 150% PASS | 2 25 PASS |
| Acenaphthylene | NA | 368 | 1 | 5 | ng/dry g | 400 | 0 | 92 | 50 - 150% PASS | 3 25 PASS |
| Anthracene | NA | 411.5 | 1 | 5 | ng/dry g | 400 | 0 | 103 | 50 - 150% PASS | 2 25 PASS |
| Benz[a]anthracene | NA | 377.4 | 1 | 5 | ng/dry g | 400 | 0 | 94 | 50 - 150% PASS | 7 25 PASS |
| Benzo[a]pyrene | NA | 373.5 | 1 | 5 | ng/dry g | 400 | 0 | 93 | 50 - 150% PASS | 1 25 PASS |
| Benzo[b]fluoranthene | NA | 373.9 | 1 | 5 | ng/dry g | 400 | 0 | 93 | 50 - 150% PASS | 5 25 PASS |
| Benzo[e]pyrene | NA | 399.5 | 1 | 5 | ng/dry g | 400 | 0 | 100 | 50 - 150% PASS | 10 25 PASS |
| Benzo[g,h,i]perylene | NA | 410.3 | 1 | 5 | ng/dry g | 400 | 0 | 103 | 50 - 150% PASS | 3 25 PASS |
| Benzo[k]fluoranthene | NA | 382.4 | 1 | 5 | ng/dry g | 400 | 0 | 96 | 50 - 150% PASS | 6 25 PASS |
| Biphenyl | NA | 405.3 | 1 | 5 | ng/dry g | 400 | 0 | 101 | 50 - 150% PASS | 15 25 PASS |
| Chrysene | NA | 342.9 | 1 | 5 | ng/dry g | 400 | 0 | 86 | 50 - 150% PASS | 13 25 PASS |
| Dibenz[a,h]anthracene | NA | 371.5 | 1 | 5 | ng/dry g | 400 | 0 | 93 | 50 - 150% PASS | 6 25 PASS |
| Dibenzothiophene | NA | 420.9 | 1 | 5 | ng/dry g | 400 | 0 | 105 | 50 - 150% PASS | 14 25 PASS |
| Fluoranthene | NA | 377.9 | 1 | 5 | ng/dry g | 400 | 0 | 94 | 50 - 150% PASS | 11 25 PASS |
| Fluorene | NA | 381.2 | 1 | 5 | ng/dry g | 400 | 0 | 95 | 50 - 150% PASS | 11 25 PASS |
| Indeno[1,2,3-c,d]pyrene | NA | 387.8 | 1 | 5 | ng/dry g | 400 | 0 | 97 | 50 - 150% PASS | 1 25 PASS |
| Naphthalene | NA | 382.8 | 1 | 5 | ng/dry g | 400 | 0 | 96 | 25 - 125% PASS | 10 25 PASS |
| Perylene | NA | 331 | 1 | 5 | ng/dry g | 400 | 0 | 83 | 50 - 150% PASS | 17 25 PASS |
| Phenanthrene | NA | 416.1 | 1 | 5 | ng/dry g | 400 | 0 | 104 | 50 - 150% PASS | 17 25 PASS |
| Pyrene | NA | 378.6 | 1 | 5 | ng/dry g | 400 | 0 | 95 | 50 - 150% PASS | 6 25 PASS |

Sample ID: 21733-B1

B13-8382

Matrix: Sediment

Sampled: 10-Jul-13

11:04

Received: 13-Jul-13

PHYSIS Project ID: 1307001-001

Client: AMEC

Project: POLA/POLB Harbor Toxics TMDL and Bight '13



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CA ELAP #2769

Polynuclear Aromatic Hydrocarbons

QUALITY CONTROL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | SPIKE LEVEL | SOURCE RESULT | ACCURACY % | PRECISION % | QA CODE |
|----------------------------|----------|------------------|-----|---------------------|------------|---------------------|---------------|---------------|-------------|---------|
| | | | | | | | | LIMITS | LIMITS | |
| Method: EPA 8270C | | Batch ID: O-6003 | | Prepared: 15-Aug-13 | | Analyzed: 09-Sep-13 | | | | |
| (d10-Acenaphthene) | NA | 80 | | | % Recovery | 100 | | 80 50 - 150% | PASS | |
| (d10-Phenanthrene) | NA | 88 | | | % Recovery | 100 | | 88 50 - 150% | PASS | |
| (d12-Chrysene) | NA | 117 | | | % Recovery | 100 | | 117 50 - 150% | PASS | |
| (d8-Naphthalene) | NA | 60 | | | % Recovery | 100 | | 60 25 - 125% | PASS | |
| 1-Methylnaphthalene | NA | ND | 1 | 5 | ng/dry g | | | | | |
| 1-Methylphenanthrene | NA | ND | 1 | 5 | ng/dry g | | | | | |
| 2,3,5-Trimethylnaphthalene | NA | ND | 1 | 5 | ng/dry g | | | | | |
| 2,6-Dimethylnaphthalene | NA | ND | 1 | 5 | ng/dry g | | | | | |
| 2-Methylnaphthalene | NA | ND | 1 | 5 | ng/dry g | | | | | |
| Acenaphthene | NA | ND | 1 | 5 | ng/dry g | | | | | |
| Acenaphthylene | NA | ND | 1 | 5 | ng/dry g | | | | | |
| Anthracene | NA | ND | 1 | 5 | ng/dry g | | | | | |
| Benz[a]anthracene | NA | ND | 1 | 5 | ng/dry g | | | | | |
| Benzo[a]pyrene | NA | ND | 1 | 5 | ng/dry g | | | | | |
| Benzo[b]fluoranthene | NA | ND | 1 | 5 | ng/dry g | | | | | |
| Benzo[e]pyrene | NA | ND | 1 | 5 | ng/dry g | | | | | |
| Benzo[g,h,i]perylene | NA | ND | 1 | 5 | ng/dry g | | | | | |
| Benzo[k]fluoranthene | NA | ND | 1 | 5 | ng/dry g | | | | | |
| Biphenyl | NA | ND | 1 | 5 | ng/dry g | | | | | |
| Chrysene | NA | ND | 1 | 5 | ng/dry g | | | | | |
| Dibenz[a,h]anthracene | NA | ND | 1 | 5 | ng/dry g | | | | | |
| Dibenzothiophene | NA | ND | 1 | 5 | ng/dry g | | | | | |
| Fluoranthene | NA | ND | 1 | 5 | ng/dry g | | | | | |
| Fluorene | NA | ND | 1 | 5 | ng/dry g | | | | | |
| Indeno[1,2,3-c,d]pyrene | NA | ND | 1 | 5 | ng/dry g | | | | | |
| Naphthalene | NA | ND | 1 | 5 | ng/dry g | | | | | |
| Perylene | NA | ND | 1 | 5 | ng/dry g | | | | | |
| Phenanthrene | NA | ND | 1 | 5 | ng/dry g | | | | | |
| Pyrene | NA | ND | 1 | 5 | ng/dry g | | | | | |

Sample ID: 21733-BS1

B13-8382

Matrix: Sediment

Sampled: 10-Jul-13

11:04

Received: 13-Jul-13

PHYSIS Project ID: 1307001-001

Client: AMEC

Project: POLA/POLB Harbor Toxics TMDL and Bight '13



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CA ELAP #2769

Polynuclear Aromatic Hydrocarbons

QUALITY CONTROL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | SPIKE LEVEL | SOURCE RESULT | ACCURACY % | PRECISION % | QA CODE |
|----------------------------|----------|------------------|-----|---------------------|------------|---------------------|---------------|------------|-------------|---------|
| | | LIMITS | | | | | | LIMITS | | |
| Method: EPA 8270C | | Batch ID: O-6003 | | Prepared: 15-Aug-13 | | Analyzed: 09-Sep-13 | | | | |
| (d10-Acenaphthene) | NA | 105 | | | % Recovery | 100 | 0 | 105 | 50 - 150% | PASS |
| (d10-Phenanthrene) | NA | 111 | | | % Recovery | 100 | 0 | 111 | 50 - 150% | PASS |
| (d12-Chrysene) | NA | 130 | | | % Recovery | 100 | 0 | 130 | 50 - 150% | PASS |
| (d8-Naphthalene) | NA | 99 | | | % Recovery | 100 | 0 | 99 | 25 - 125% | PASS |
| 1-Methylnaphthalene | NA | 474.7 | 1 | 5 | ng/dry g | 400 | 0 | 119 | 50 - 150% | PASS |
| 1-Methylphenanthrene | NA | 426.5 | 1 | 5 | ng/dry g | 400 | 0 | 107 | 50 - 150% | PASS |
| 2,3,5-Trimethylnaphthalene | NA | 461.4 | 1 | 5 | ng/dry g | 400 | 0 | 115 | 50 - 150% | PASS |
| 2,6-Dimethylnaphthalene | NA | 433.6 | 1 | 5 | ng/dry g | 400 | 0 | 108 | 50 - 150% | PASS |
| 2-Methylnaphthalene | NA | 447.2 | 1 | 5 | ng/dry g | 400 | 0 | 112 | 50 - 150% | PASS |
| Acenaphthene | NA | 448.8 | 1 | 5 | ng/dry g | 400 | 0 | 112 | 50 - 150% | PASS |
| Acenaphthylene | NA | 406.4 | 1 | 5 | ng/dry g | 400 | 0 | 102 | 50 - 150% | PASS |
| Anthracene | NA | 391.8 | 1 | 5 | ng/dry g | 400 | 0 | 98 | 50 - 150% | PASS |
| Benz[a]anthracene | NA | 430 | 1 | 5 | ng/dry g | 400 | 0 | 108 | 50 - 150% | PASS |
| Benzo[a]pyrene | NA | 435.1 | 1 | 5 | ng/dry g | 400 | 0 | 109 | 50 - 150% | PASS |
| Benzo[b]fluoranthene | NA | 495.8 | 1 | 5 | ng/dry g | 400 | 0 | 124 | 50 - 150% | PASS |
| Benzo[e]pyrene | NA | 496.8 | 1 | 5 | ng/dry g | 400 | 0 | 124 | 50 - 150% | PASS |
| Benzo[g,h,i]perylene | NA | 431.4 | 1 | 5 | ng/dry g | 400 | 0 | 108 | 50 - 150% | PASS |
| Benzo[k]fluoranthene | NA | 435.9 | 1 | 5 | ng/dry g | 400 | 0 | 109 | 50 - 150% | PASS |
| Biphenyl | NA | 358.9 | 1 | 5 | ng/dry g | 400 | 0 | 90 | 50 - 150% | PASS |
| Chrysene | NA | 376.8 | 1 | 5 | ng/dry g | 400 | 0 | 94 | 50 - 150% | PASS |
| Dibenz[a,h]anthracene | NA | 328.3 | 1 | 5 | ng/dry g | 400 | 0 | 82 | 50 - 150% | PASS |
| Dibenzothiophene | NA | 353.7 | 1 | 5 | ng/dry g | 400 | 0 | 88 | 50 - 150% | PASS |
| Fluoranthene | NA | 392.7 | 1 | 5 | ng/dry g | 400 | 0 | 98 | 50 - 150% | PASS |
| Fluorene | NA | 429.5 | 1 | 5 | ng/dry g | 400 | 0 | 107 | 50 - 150% | PASS |
| Indeno[1,2,3-c,d]pyrene | NA | 438.6 | 1 | 5 | ng/dry g | 400 | 0 | 110 | 50 - 150% | PASS |
| Naphthalene | NA | 360.5 | 1 | 5 | ng/dry g | 400 | 0 | 90 | 25 - 125% | PASS |
| Perylene | NA | 413.1 | 1 | 5 | ng/dry g | 400 | 0 | 103 | 50 - 150% | PASS |
| Phenanthrene | NA | 465.3 | 1 | 5 | ng/dry g | 400 | 0 | 116 | 50 - 150% | PASS |
| Pyrene | NA | 396.2 | 1 | 5 | ng/dry g | 400 | 0 | 99 | 50 - 150% | PASS |

Sample ID: 21733-BS2

B13-8382

Matrix: Sediment

Sampled: 10-Jul-13

11:04

Received: 13-Jul-13

PHYSIS Project ID: 1307001-001

Client: AMEC

Project: POLA/POLB Harbor Toxics TMDL and Bight '13



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CA ELAP #2769

Polynuclear Aromatic Hydrocarbons

QUALITY CONTROL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | SPIKE LEVEL | SOURCE RESULT | ACCURACY % | PRECISION % | QA CODE |
|----------------------------|----------|------------------|-----|---------------------|------------|---------------------|---------------|------------|----------------|------------|
| | | LIMITS | | | | LIMITS | | | | |
| Method: EPA 8270C | | Batch ID: O-6003 | | Prepared: 15-Aug-13 | | Analyzed: 09-Sep-13 | | | | |
| (d10-Acenaphthene) | NA | 103 | | | % Recovery | 100 | 0 | 103 | 50 - 150% PASS | 2 25 PASS |
| (d10-Phenanthrene) | NA | 111 | | | % Recovery | 100 | 0 | 111 | 50 - 150% PASS | 0 25 PASS |
| (d12-Chrysene) | NA | 115 | | | % Recovery | 100 | 0 | 115 | 50 - 150% PASS | 12 25 PASS |
| (d8-Naphthalene) | NA | 98 | | | % Recovery | 100 | 0 | 98 | 25 - 125% PASS | 1 25 PASS |
| 1-Methylnaphthalene | NA | 495 | 1 | 5 | ng/dry g | 400 | 0 | 124 | 50 - 150% PASS | 4 25 PASS |
| 1-Methylphenanthrene | NA | 412.7 | 1 | 5 | ng/dry g | 400 | 0 | 103 | 50 - 150% PASS | 4 25 PASS |
| 2,3,5-Trimethylnaphthalene | NA | 419.2 | 1 | 5 | ng/dry g | 400 | 0 | 105 | 50 - 150% PASS | 9 25 PASS |
| 2,6-Dimethylnaphthalene | NA | 410.6 | 1 | 5 | ng/dry g | 400 | 0 | 103 | 50 - 150% PASS | 5 25 PASS |
| 2-Methylnaphthalene | NA | 453.6 | 1 | 5 | ng/dry g | 400 | 0 | 113 | 50 - 150% PASS | 1 25 PASS |
| Acenaphthene | NA | 440.2 | 1 | 5 | ng/dry g | 400 | 0 | 110 | 50 - 150% PASS | 2 25 PASS |
| Acenaphthylene | NA | 393.2 | 1 | 5 | ng/dry g | 400 | 0 | 98 | 50 - 150% PASS | 4 25 PASS |
| Anthracene | NA | 369.4 | 1 | 5 | ng/dry g | 400 | 0 | 92 | 50 - 150% PASS | 6 25 PASS |
| Benz[a]anthracene | NA | 397.5 | 1 | 5 | ng/dry g | 400 | 0 | 99 | 50 - 150% PASS | 9 25 PASS |
| Benzo[a]pyrene | NA | 489.9 | 1 | 5 | ng/dry g | 400 | 0 | 122 | 50 - 150% PASS | 11 25 PASS |
| Benzo[b]fluoranthene | NA | 453.6 | 1 | 5 | ng/dry g | 400 | 0 | 113 | 50 - 150% PASS | 9 25 PASS |
| Benzo[e]pyrene | NA | 463.1 | 1 | 5 | ng/dry g | 400 | 0 | 116 | 50 - 150% PASS | 7 25 PASS |
| Benzo[g,h,i]perylene | NA | 397.9 | 1 | 5 | ng/dry g | 400 | 0 | 99 | 50 - 150% PASS | 9 25 PASS |
| Benzo[k]fluoranthene | NA | 391.2 | 1 | 5 | ng/dry g | 400 | 0 | 98 | 50 - 150% PASS | 11 25 PASS |
| Biphenyl | NA | 380.4 | 1 | 5 | ng/dry g | 400 | 0 | 95 | 50 - 150% PASS | 5 25 PASS |
| Chrysene | NA | 365.4 | 1 | 5 | ng/dry g | 400 | 0 | 91 | 50 - 150% PASS | 3 25 PASS |
| Dibenz[a,h]anthracene | NA | 367 | 1 | 5 | ng/dry g | 400 | 0 | 92 | 50 - 150% PASS | 11 25 PASS |
| Dibenzothiophene | NA | 360.8 | 1 | 5 | ng/dry g | 400 | 0 | 90 | 50 - 150% PASS | 2 25 PASS |
| Fluoranthene | NA | 380.8 | 1 | 5 | ng/dry g | 400 | 0 | 95 | 50 - 150% PASS | 3 25 PASS |
| Fluorene | NA | 421.5 | 1 | 5 | ng/dry g | 400 | 0 | 105 | 50 - 150% PASS | 2 25 PASS |
| Indeno[1,2,3-c,d]pyrene | NA | 430.1 | 1 | 5 | ng/dry g | 400 | 0 | 108 | 50 - 150% PASS | 2 25 PASS |
| Naphthalene | NA | 378.2 | 1 | 5 | ng/dry g | 400 | 0 | 95 | 25 - 125% PASS | 5 25 PASS |
| Perylene | NA | 417 | 1 | 5 | ng/dry g | 400 | 0 | 104 | 50 - 150% PASS | 1 25 PASS |
| Phenanthrene | NA | 464.9 | 1 | 5 | ng/dry g | 400 | 0 | 116 | 50 - 150% PASS | 0 25 PASS |
| Pyrene | NA | 395.4 | 1 | 5 | ng/dry g | 400 | 0 | 99 | 50 - 150% PASS | 0 25 PASS |

Sample ID: 21744-MS1 B13-8308

Matrix: Sediment

Sampled: 11-Jul-13 17:06

Received: 13-Jul-13

PHYSIS Project ID: 1307001-001

Client: AMEC

Project: POLA/POLB Harbor Toxics TMDL and Bight '13



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CA ELAP #2769

Polynuclear Aromatic Hydrocarbons

QUALITY CONTROL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | SPIKE LEVEL | SOURCE RESULT | ACCURACY % | PRECISION % | QA CODE |
|----------------------------|----------|------------------|-----|---------------------|------------|---------------------|---------------|------------|-------------|---------|
| | | LIMITS | | | | LIMITS | | | | |
| Method: EPA 8270C | | Batch ID: O-6003 | | Prepared: 15-Aug-13 | | Analyzed: 09-Sep-13 | | | | |
| (d10-Acenaphthene) | NA | 84 | | | % Recovery | 100 | 0 | 84 | 50 - 150% | PASS |
| (d10-Phenanthrene) | NA | 96 | | | % Recovery | 100 | 0 | 96 | 50 - 150% | PASS |
| (d12-Chrysene) | NA | 126 | | | % Recovery | 100 | 0 | 126 | 50 - 150% | PASS |
| (d8-Naphthalene) | NA | 64 | | | % Recovery | 100 | 0 | 64 | 25 - 125% | PASS |
| 1-Methylnaphthalene | NA | 44.2 | 1 | 5 | ng/dry g | 47.8 | 0 | 92 | 50 - 150% | PASS |
| 1-Methylphenanthrene | NA | 54.4 | 1 | 5 | ng/dry g | 47.8 | 0 | 114 | 50 - 150% | PASS |
| 2,3,5-Trimethylnaphthalene | NA | 49.2 | 1 | 5 | ng/dry g | 47.8 | 0 | 103 | 50 - 150% | PASS |
| 2,6-Dimethylnaphthalene | NA | 43.8 | 1 | 5 | ng/dry g | 47.8 | 0.6 | 90 | 50 - 150% | PASS |
| 2-Methylnaphthalene | NA | 43.1 | 1 | 5 | ng/dry g | 47.8 | 0 | 90 | 50 - 150% | PASS |
| Acenaphthene | NA | 46.9 | 1 | 5 | ng/dry g | 47.8 | 0 | 98 | 50 - 150% | PASS |
| Acenaphthylene | NA | 46.6 | 1 | 5 | ng/dry g | 47.8 | 0 | 97 | 50 - 150% | PASS |
| Anthracene | NA | 46.5 | 1 | 5 | ng/dry g | 47.8 | 1.2 | 95 | 50 - 150% | PASS |
| Benz[a]anthracene | NA | 47.7 | 1 | 5 | ng/dry g | 47.8 | 1.9 | 96 | 50 - 150% | PASS |
| Benzo[a]pyrene | NA | 41.5 | 1 | 5 | ng/dry g | 47.8 | 6.6 | 73 | 50 - 150% | PASS |
| Benzo[b]fluoranthene | NA | 40.4 | 1 | 5 | ng/dry g | 47.8 | 4.3 | 76 | 50 - 150% | PASS |
| Benzo[e]pyrene | NA | 38.7 | 1 | 5 | ng/dry g | 47.8 | 2.8 | 75 | 50 - 150% | PASS |
| Benzo[g,h,i]perylene | NA | 51.7 | 1 | 5 | ng/dry g | 47.8 | 3.2 | 101 | 50 - 150% | PASS |
| Benzo[k]fluoranthene | NA | 43.3 | 1 | 5 | ng/dry g | 47.8 | 2.8 | 85 | 50 - 150% | PASS |
| Biphenyl | NA | 41.9 | 1 | 5 | ng/dry g | 47.8 | 0 | 88 | 50 - 150% | PASS |
| Chrysene | NA | 43.8 | 1 | 5 | ng/dry g | 47.8 | 2.4 | 87 | 50 - 150% | PASS |
| Dibenz[a,h]anthracene | NA | 46.9 | 1 | 5 | ng/dry g | 47.8 | 0 | 98 | 50 - 150% | PASS |
| Dibenzothiophene | NA | 47.5 | 1 | 5 | ng/dry g | 47.8 | 0 | 99 | 50 - 150% | PASS |
| Fluoranthene | NA | 38.9 | 1 | 5 | ng/dry g | 47.8 | 2.3 | 77 | 50 - 150% | PASS |
| Fluorene | NA | 51.6 | 1 | 5 | ng/dry g | 47.8 | 0 | 108 | 50 - 150% | PASS |
| Indeno[1,2,3-c,d]pyrene | NA | 42.2 | 1 | 5 | ng/dry g | 47.8 | 4.5 | 79 | 50 - 150% | PASS |
| Naphthalene | NA | 39.4 | 1 | 5 | ng/dry g | 47.8 | 0 | 82 | 25 - 125% | PASS |
| Perylene | NA | 38.6 | 1 | 5 | ng/dry g | 47.8 | 13.4 | 53 | 50 - 150% | PASS |
| Phenanthrene | NA | 51.3 | 1 | 5 | ng/dry g | 47.8 | 0.6 | 106 | 50 - 150% | PASS |
| Pyrene | NA | 40 | 1 | 5 | ng/dry g | 47.8 | 2.7 | 78 | 50 - 150% | PASS |

Sample ID: 21744-MS2 B13-8308

Matrix: Sediment

Sampled: 11-Jul-13 17:06

Received: 13-Jul-13

PHYSIS Project ID: 1307001-001

Client: AMEC

Project: POLA/POLB Harbor Toxics TMDL and Bight '13



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CA ELAP #2769

Polynuclear Aromatic Hydrocarbons

QUALITY CONTROL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | SPIKE LEVEL | SOURCE RESULT | ACCURACY % | PRECISION % | QA CODE |
|----------------------------|----------|------------------|-----|---------------------|------------|---------------------|---------------|------------|----------------|------------|
| | | LIMITS | | | | | | LIMITS | | |
| Method: EPA 8270C | | Batch ID: O-6003 | | Prepared: 15-Aug-13 | | Analyzed: 09-Sep-13 | | | | |
| (d10-Acenaphthene) | NA | 85 | | | % Recovery | 100 | 0 | 85 | 50 - 150% PASS | 1 25 PASS |
| (d10-Phenanthrene) | NA | 98 | | | % Recovery | 100 | 0 | 98 | 50 - 150% PASS | 2 25 PASS |
| (d12-Chrysene) | NA | 118 | | | % Recovery | 100 | 0 | 118 | 50 - 150% PASS | 7 25 PASS |
| (d8-Naphthalene) | NA | 66 | | | % Recovery | 100 | 0 | 66 | 25 - 125% PASS | 3 25 PASS |
| 1-Methylnaphthalene | NA | 43.5 | 1 | 5 | ng/dry g | 47.8 | 0 | 91 | 50 - 150% PASS | 1 25 PASS |
| 1-Methylphenanthrene | NA | 55 | 1 | 5 | ng/dry g | 47.8 | 0 | 115 | 50 - 150% PASS | 1 25 PASS |
| 2,3,5-Trimethylnaphthalene | NA | 49.8 | 1 | 5 | ng/dry g | 47.8 | 0 | 104 | 50 - 150% PASS | 1 25 PASS |
| 2,6-Dimethylnaphthalene | NA | 42.4 | 1 | 5 | ng/dry g | 47.8 | 0.6 | 87 | 50 - 150% PASS | 3 25 PASS |
| 2-Methylnaphthalene | NA | 41.3 | 1 | 5 | ng/dry g | 47.8 | 0 | 86 | 50 - 150% PASS | 5 25 PASS |
| Acenaphthene | NA | 46.5 | 1 | 5 | ng/dry g | 47.8 | 0 | 97 | 50 - 150% PASS | 1 25 PASS |
| Acenaphthylene | NA | 46.4 | 1 | 5 | ng/dry g | 47.8 | 0 | 97 | 50 - 150% PASS | 0 25 PASS |
| Anthracene | NA | 45.1 | 1 | 5 | ng/dry g | 47.8 | 1.2 | 92 | 50 - 150% PASS | 3 25 PASS |
| Benz[a]anthracene | NA | 46.3 | 1 | 5 | ng/dry g | 47.8 | 1.9 | 93 | 50 - 150% PASS | 3 25 PASS |
| Benzo[a]pyrene | NA | 39.6 | 1 | 5 | ng/dry g | 47.8 | 6.6 | 69 | 50 - 150% PASS | 6 25 PASS |
| Benzo[b]fluoranthene | NA | 46.9 | 1 | 5 | ng/dry g | 47.8 | 4.3 | 89 | 50 - 150% PASS | 16 25 PASS |
| Benzo[e]pyrene | NA | 45.8 | 1 | 5 | ng/dry g | 47.8 | 2.8 | 90 | 50 - 150% PASS | 18 25 PASS |
| Benzo[g,h,i]perylene | NA | 48.3 | 1 | 5 | ng/dry g | 47.8 | 3.2 | 94 | 50 - 150% PASS | 7 25 PASS |
| Benzo[k]fluoranthene | NA | 48.8 | 1 | 5 | ng/dry g | 47.8 | 2.8 | 96 | 50 - 150% PASS | 12 25 PASS |
| Biphenyl | NA | 43.2 | 1 | 5 | ng/dry g | 47.8 | 0 | 90 | 50 - 150% PASS | 2 25 PASS |
| Chrysene | NA | 48.3 | 1 | 5 | ng/dry g | 47.8 | 2.4 | 96 | 50 - 150% PASS | 10 25 PASS |
| Dibenz[a,h]anthracene | NA | 46.6 | 1 | 5 | ng/dry g | 47.8 | 0 | 97 | 50 - 150% PASS | 1 25 PASS |
| Dibenzothiophene | NA | 46.8 | 1 | 5 | ng/dry g | 47.8 | 0 | 98 | 50 - 150% PASS | 1 25 PASS |
| Fluoranthene | NA | 39.2 | 1 | 5 | ng/dry g | 47.8 | 2.3 | 77 | 50 - 150% PASS | 0 25 PASS |
| Fluorene | NA | 50.7 | 1 | 5 | ng/dry g | 47.8 | 0 | 106 | 50 - 150% PASS | 2 25 PASS |
| Indeno[1,2,3-c,d]pyrene | NA | 42 | 1 | 5 | ng/dry g | 47.8 | 4.5 | 78 | 50 - 150% PASS | 1 25 PASS |
| Naphthalene | NA | 39.6 | 1 | 5 | ng/dry g | 47.8 | 0 | 83 | 25 - 125% PASS | 1 25 PASS |
| Perylene | NA | 39.8 | 1 | 5 | ng/dry g | 47.8 | 13.4 | 55 | 50 - 150% PASS | 4 25 PASS |
| Phenanthrene | NA | 48.8 | 1 | 5 | ng/dry g | 47.8 | 0.6 | 101 | 50 - 150% PASS | 5 25 PASS |
| Pyrene | NA | 42.5 | 1 | 5 | ng/dry g | 47.8 | 2.7 | 83 | 50 - 150% PASS | 6 25 PASS |

Sample ID: 21744-R2

B13-8308

Matrix: Sediment

Sampled: 11-Jul-13

17:06

Received: 13-Jul-13

PHYSIS Project ID: 1307001-001

Client: AMEC

Project: POLA/POLB Harbor Toxics TMDL and Bight '13



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CA ELAP #2769

Polynuclear Aromatic Hydrocarbons

QUALITY CONTROL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | SPIKE LEVEL | SOURCE RESULT | ACCURACY % LIMITS | PRECISION % LIMITS | QA CODE |
|----------------------------|----------|------------------|-----|---------------------|------------|---------------------|---------------|--------------------|--------------------|---------|
| Method: EPA 8270C | | Batch ID: O-6003 | | Prepared: 15-Aug-13 | | Analyzed: 09-Sep-13 | | | | |
| (d10-Acenaphthene) | NA | 79 | | | % Recovery | 100 | | 79 50 - 150% PASS | 7 25 PASS | |
| (d10-Phenanthrene) | NA | 94 | | | % Recovery | 100 | | 94 50 - 150% PASS | 4 25 PASS | |
| (d12-Chrysene) | NA | 118 | | | % Recovery | 100 | | 118 50 - 150% PASS | 6 25 PASS | |
| (d8-Naphthalene) | NA | 61 | | | % Recovery | 100 | | 61 25 - 125% PASS | 5 25 PASS | |
| 1-Methylnaphthalene | NA | ND | 1 | 5 | ng/dry g | | | | 0 25 PASS | |
| 1-Methylphenanthrene | NA | ND | 1 | 5 | ng/dry g | | | | 0 25 PASS | |
| 2,3,5-Trimethylnaphthalene | NA | ND | 1 | 5 | ng/dry g | | | | 0 25 PASS | |
| 2,6-Dimethylnaphthalene | NA | ND | 1 | 5 | ng/dry g | | | | 10 25 PASS | |
| 2-Methylnaphthalene | NA | ND | 1 | 5 | ng/dry g | | | | 0 25 PASS | |
| Acenaphthene | NA | ND | 1 | 5 | ng/dry g | | | | 0 25 PASS | |
| Acenaphthylene | NA | ND | 1 | 5 | ng/dry g | | | | 0 25 PASS | |
| Anthracene | NA | 1.1 | 1 | 5 | ng/dry g | | | | 17 25 PASS | J |
| Benz[a]anthracene | NA | 1.3 | 1 | 5 | ng/dry g | | | | 59 25 FAIL | J,SL |
| Benzo[a]pyrene | NA | 6.6 | 1 | 5 | ng/dry g | | | | 2 25 PASS | |
| Benzo[b]fluoranthene | NA | 4.7 | 1 | 5 | ng/dry g | | | | 21 25 PASS | J |
| Benzo[e]pyrene | NA | 3.1 | 1 | 5 | ng/dry g | | | | 21 25 PASS | J |
| Benzo[g,h,i]perylene | NA | 3 | 1 | 5 | ng/dry g | | | | 13 25 PASS | J |
| Benzo[k]fluoranthene | NA | 2.8 | 1 | 5 | ng/dry g | | | | 4 25 PASS | J |
| Biphenyl | NA | ND | 1 | 5 | ng/dry g | | | | 0 25 PASS | |
| Chrysene | NA | 1.7 | 1 | 5 | ng/dry g | | | | 58 25 FAIL | J,SL |
| Dibenz[a,h]anthracene | NA | ND | 1 | 5 | ng/dry g | | | | 0 25 PASS | |
| Dibenzothiophene | NA | ND | 1 | 5 | ng/dry g | | | | 0 25 PASS | |
| Fluoranthene | NA | 1.4 | 1 | 5 | ng/dry g | | | | 76 25 FAIL | J,SL |
| Fluorene | NA | ND | 1 | 5 | ng/dry g | | | | 0 25 PASS | |
| Indeno[1,2,3-c,d]pyrene | NA | 4.4 | 1 | 5 | ng/dry g | | | | 4 25 PASS | J |
| Naphthalene | NA | ND | 1 | 5 | ng/dry g | | | | 0 25 PASS | |
| Perylene | NA | 12 | 1 | 5 | ng/dry g | | | | 21 25 PASS | |
| Phenanthrene | NA | ND | 1 | 5 | ng/dry g | | | | 26 25 FAIL | SL |
| Pyrene | NA | 2.1 | 1 | 5 | ng/dry g | | | | 44 25 FAIL | J,SL |

Sample ID: 21753-MS1 B13-8397

Matrix: Sediment

Sampled: 12-Jul-13 11:20

Received: 13-Jul-13

PHYSIS Project ID: 1307001-001

Client: AMEC

Project: POLA/POLB Harbor Toxics TMDL and Bight '13



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CA ELAP #2769

Polynuclear Aromatic Hydrocarbons

QUALITY CONTROL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | SPIKE LEVEL | SOURCE RESULT | ACCURACY % | PRECISION % | QA CODE | |
|----------------------------|----------|-------------------|-----|----|------------------|-------------|---------------|---------------------|-------------|---------------------|---|
| | | LIMITS | | | | | | LIMITS | | | |
| | | Method: EPA 8270C | | | Batch ID: O-6001 | | | Prepared: 09-Aug-13 | | Analyzed: 30-Aug-13 | |
| (d10-Acenaphthene) | NA | 74 | | | % Recovery | 100 | 0 | 74 | 50 - 150% | PASS | |
| (d10-Phenanthrene) | NA | 97 | | | % Recovery | 100 | 0 | 97 | 50 - 150% | PASS | |
| (d12-Chrysene) | NA | 147 | | | % Recovery | 100 | 0 | 147 | 50 - 150% | PASS | |
| (d8-Naphthalene) | NA | 50 | | | % Recovery | 100 | 0 | 50 | 25 - 125% | PASS | |
| 1-Methylnaphthalene | NA | 61.1 | 1 | 5 | ng/dry g | 72 | 1.8 | 82 | 50 - 150% | PASS | |
| 1-Methylphenanthrene | NA | 91.2 | 1 | 5 | ng/dry g | 72 | 3.9 | 121 | 50 - 150% | PASS | |
| 2,3,5-Trimethylnaphthalene | NA | 69 | 1 | 5 | ng/dry g | 72 | 0 | 96 | 50 - 150% | PASS | |
| 2,6-Dimethylnaphthalene | NA | 57 | 1 | 5 | ng/dry g | 72 | 2.2 | 76 | 50 - 150% | PASS | |
| 2-Methylnaphthalene | NA | 58.4 | 1 | 5 | ng/dry g | 72 | 3.7 | 76 | 50 - 150% | PASS | |
| Acenaphthene | NA | 66.5 | 1 | 5 | ng/dry g | 72 | 1.6 | 90 | 50 - 150% | PASS | |
| Acenaphthylene | NA | 67.7 | 1 | 5 | ng/dry g | 72 | 6.4 | 85 | 50 - 150% | PASS | |
| Anthracene | NA | 91.4 | 1 | 5 | ng/dry g | 72 | 25.1 | 92 | 50 - 150% | PASS | |
| Benz[a]anthracene | NA | 81.4 | 1 | 5 | ng/dry g | 72 | 45 | 51 | 50 - 150% | PASS | |
| Benzo[a]pyrene | NA | 85.8 | 1 | 5 | ng/dry g | 72 | 107.9 | -31 | 50 - 150% | FAIL | M |
| Benzo[b]fluoranthene | NA | 84.6 | 1 | 5 | ng/dry g | 72 | 100.4 | -22 | 50 - 150% | FAIL | M |
| Benzo[e]pyrene | NA | 84.1 | 1 | 5 | ng/dry g | 72 | 68.1 | 22 | 50 - 150% | FAIL | M |
| Benzo[g,h,i]perylene | NA | 98.3 | 1 | 5 | ng/dry g | 72 | 53.7 | 62 | 50 - 150% | PASS | |
| Benzo[k]fluoranthene | NA | 82 | 1 | 5 | ng/dry g | 72 | 57 | 35 | 50 - 150% | FAIL | M |
| Biphenyl | NA | 56.8 | 1 | 5 | ng/dry g | 72 | 0.5 | 78 | 50 - 150% | PASS | |
| Chrysene | NA | 71.7 | 1 | 5 | ng/dry g | 72 | 70.3 | 2 | 50 - 150% | FAIL | M |
| Dibenz[a,h]anthracene | NA | 91.5 | 1 | 5 | ng/dry g | 72 | 27.1 | 89 | 50 - 150% | PASS | |
| Dibenzothiophene | NA | 73.7 | 1 | 5 | ng/dry g | 72 | 2.1 | 99 | 50 - 150% | PASS | |
| Fluoranthene | NA | 76.4 | 1 | 5 | ng/dry g | 72 | 46.5 | 42 | 50 - 150% | FAIL | M |
| Fluorene | NA | 70.1 | 1 | 5 | ng/dry g | 72 | 1.7 | 95 | 50 - 150% | PASS | |
| Indeno[1,2,3-c,d]pyrene | NA | 80 | 1 | 5 | ng/dry g | 72 | 70.2 | 14 | 50 - 150% | FAIL | M |
| Naphthalene | NA | 57.9 | 1 | 5 | ng/dry g | 72 | 4 | 75 | 25 - 125% | PASS | |
| Perylene | NA | 96.1 | 1 | 5 | ng/dry g | 72 | 31.1 | 90 | 50 - 150% | PASS | |
| Phenanthrene | NA | 87.1 | 1 | 5 | ng/dry g | 72 | 15.8 | 99 | 50 - 150% | PASS | |
| Pyrene | NA | 86.6 | 1 | 5 | ng/dry g | 72 | 53.4 | 46 | 50 - 150% | FAIL | M |

Sample ID: 21753-MS2

B13-8397

Matrix: Sediment

Sampled: 12-Jul-13

11:20

Received: 13-Jul-13

PHYSIS Project ID: 1307001-001

Client: AMEC

Project: POLA/POLB Harbor Toxics TMDL and Bight '13



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CA ELAP #2769

Polynuclear Aromatic Hydrocarbons

QUALITY CONTROL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | SPIKE LEVEL | SOURCE RESULT | ACCURACY % | PRECISION % | QA CODE | | | |
|----------------------------|----------|------------------|-----|---------------------|------------|---------------------|---------------|------------|----------------|---------|----|------|---|
| | | LIMITS | | | | LIMITS | | | | | | | |
| Method: EPA 8270C | | Batch ID: O-6001 | | Prepared: 09-Aug-13 | | Analyzed: 30-Aug-13 | | | | | | | |
| (d10-Acenaphthene) | NA | 85 | | | % Recovery | 100 | 0 | 85 | 50 - 150% PASS | 14 | 25 | PASS | |
| (d10-Phenanthrene) | NA | 100 | | | % Recovery | 100 | 0 | 100 | 50 - 150% PASS | 3 | 25 | PASS | |
| (d12-Chrysene) | NA | 145 | | | % Recovery | 100 | 0 | 145 | 50 - 150% PASS | 1 | 25 | PASS | |
| (d8-Naphthalene) | NA | 63 | | | % Recovery | 100 | 0 | 63 | 25 - 125% PASS | 23 | 25 | PASS | |
| 1-Methylnaphthalene | NA | 71.7 | 1 | 5 | ng/dry g | 72 | 1.8 | 97 | 50 - 150% PASS | 17 | 25 | PASS | |
| 1-Methylphenanthrene | NA | 88.4 | 1 | 5 | ng/dry g | 72 | 3.9 | 117 | 50 - 150% PASS | 3 | 25 | PASS | |
| 2,3,5-Trimethylnaphthalene | NA | 76.7 | 1 | 5 | ng/dry g | 72 | 0 | 107 | 50 - 150% PASS | 11 | 25 | PASS | |
| 2,6-Dimethylnaphthalene | NA | 68 | 1 | 5 | ng/dry g | 72 | 2.2 | 91 | 50 - 150% PASS | 18 | 25 | PASS | |
| 2-Methylnaphthalene | NA | 72.5 | 1 | 5 | ng/dry g | 72 | 3.7 | 96 | 50 - 150% PASS | 23 | 25 | PASS | |
| Acenaphthene | NA | 75.7 | 1 | 5 | ng/dry g | 72 | 1.6 | 103 | 50 - 150% PASS | 13 | 25 | PASS | |
| Acenaphthylene | NA | 78.6 | 1 | 5 | ng/dry g | 72 | 6.4 | 100 | 50 - 150% PASS | 16 | 25 | PASS | |
| Anthracene | NA | 90.8 | 1 | 5 | ng/dry g | 72 | 25.1 | 91 | 50 - 150% PASS | 1 | 25 | PASS | |
| Benz[a]anthracene | NA | 74.2 | 1 | 5 | ng/dry g | 72 | 45 | 41 | 50 - 150% FAIL | 22 | 25 | PASS | M |
| Benzo[a]pyrene | NA | 87.9 | 1 | 5 | ng/dry g | 72 | 107.9 | -28 | 50 - 150% FAIL | 10 | 25 | PASS | M |
| Benzo[b]fluoranthene | NA | 83.8 | 1 | 5 | ng/dry g | 72 | 100.4 | -23 | 50 - 150% FAIL | 4 | 25 | PASS | M |
| Benzo[e]pyrene | NA | 84.3 | 1 | 5 | ng/dry g | 72 | 68.1 | 23 | 50 - 150% FAIL | 4 | 25 | PASS | M |
| Benzo[g,h,i]perylene | NA | 103.3 | 1 | 5 | ng/dry g | 72 | 53.7 | 69 | 50 - 150% PASS | 11 | 25 | PASS | |
| Benzo[k]fluoranthene | NA | 81.4 | 1 | 5 | ng/dry g | 72 | 57 | 34 | 50 - 150% FAIL | 3 | 25 | PASS | M |
| Biphenyl | NA | 67.7 | 1 | 5 | ng/dry g | 72 | 0.5 | 93 | 50 - 150% PASS | 18 | 25 | PASS | |
| Chrysene | NA | 71.6 | 1 | 5 | ng/dry g | 72 | 70.3 | 2 | 50 - 150% FAIL | 0 | 25 | PASS | M |
| Dibenz[a,h]anthracene | NA | 78.6 | 1 | 5 | ng/dry g | 72 | 27.1 | 72 | 50 - 150% PASS | 21 | 25 | PASS | |
| Dibenzothiophene | NA | 74.7 | 1 | 5 | ng/dry g | 72 | 2.1 | 101 | 50 - 150% PASS | 2 | 25 | PASS | |
| Fluoranthene | NA | 73.1 | 1 | 5 | ng/dry g | 72 | 46.5 | 37 | 50 - 150% FAIL | 13 | 25 | PASS | M |
| Fluorene | NA | 76.4 | 1 | 5 | ng/dry g | 72 | 1.7 | 104 | 50 - 150% PASS | 9 | 25 | PASS | |
| Indeno[1,2,3-c,d]pyrene | NA | 68.3 | 1 | 5 | ng/dry g | 72 | 70.2 | -3 | 50 - 150% FAIL | 309 | 25 | FAIL | M |
| Naphthalene | NA | 68.7 | 1 | 5 | ng/dry g | 72 | 4 | 90 | 25 - 125% PASS | 18 | 25 | PASS | |
| Perylene | NA | 85.8 | 1 | 5 | ng/dry g | 72 | 31.1 | 76 | 50 - 150% PASS | 17 | 25 | PASS | |
| Phenanthrene | NA | 90.7 | 1 | 5 | ng/dry g | 72 | 15.8 | 104 | 50 - 150% PASS | 5 | 25 | PASS | |
| Pyrene | NA | 73.4 | 1 | 5 | ng/dry g | 72 | 53.4 | 28 | 50 - 150% FAIL | 49 | 25 | FAIL | M |

Sample ID: 21753-R2

B13-8397

Matrix: Sediment

Sampled: 12-Jul-13

11:20

Received: 13-Jul-13

PHYSIS Project ID: 1307001-001

Client: AMEC

Project: POLA/POLB Harbor Toxics TMDL and Bight '13



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CA ELAP #2769

Polynuclear Aromatic Hydrocarbons

QUALITY CONTROL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | SPIKE LEVEL | SOURCE RESULT | ACCURACY % LIMITS | PRECISION % LIMITS | QA CODE |
|----------------------------|----------|------------------|-----|---------------------|------------|---------------------|---------------|--------------------|--------------------|---------|
| Method: EPA 8270C | | Batch ID: O-6001 | | Prepared: 09-Aug-13 | | Analyzed: 30-Aug-13 | | | | |
| (d10-Acenaphthene) | NA | 74 | | | % Recovery | 100 | | 74 50 - 150% PASS | 7 25 PASS | |
| (d10-Phenanthrene) | NA | 88 | | | % Recovery | 100 | | 88 50 - 150% PASS | 3 25 PASS | |
| (d12-Chrysene) | NA | 117 | | | % Recovery | 100 | | 117 50 - 150% PASS | 23 25 PASS | |
| (d8-Naphthalene) | NA | 51 | | | % Recovery | 100 | | 51 25 - 125% PASS | 8 25 PASS | |
| 1-Methylnaphthalene | NA | 1.6 | 1 | 5 | ng/dry g | | | | 22 25 PASS | J |
| 1-Methylphenanthrene | NA | 3.8 | 1 | 5 | ng/dry g | | | | 5 25 PASS | J |
| 2,3,5-Trimethylnaphthalene | NA | ND | 1 | 5 | ng/dry g | | | | 0 25 PASS | |
| 2,6-Dimethylnaphthalene | NA | 2.1 | 1 | 5 | ng/dry g | | | | 9 25 PASS | J |
| 2-Methylnaphthalene | NA | 3.4 | 1 | 5 | ng/dry g | | | | 14 25 PASS | J |
| Acenaphthene | NA | 1.5 | 1 | 5 | ng/dry g | | | | 18 25 PASS | J |
| Acenaphthylene | NA | 5.2 | 1 | 5 | ng/dry g | | | | 38 25 FAIL | SL |
| Anthracene | NA | 22.5 | 1 | 5 | ng/dry g | | | | 21 25 PASS | |
| Benz[a]anthracene | NA | 45.7 | 1 | 5 | ng/dry g | | | | 3 25 PASS | |
| Benzo[a]pyrene | NA | 98.4 | 1 | 5 | ng/dry g | | | | 18 25 PASS | |
| Benzo[b]fluoranthene | NA | 93 | 1 | 5 | ng/dry g | | | | 15 25 PASS | |
| Benzo[e]pyrene | NA | 58.7 | 1 | 5 | ng/dry g | | | | 28 25 FAIL | NH |
| Benzo[g,h,i]perylene | NA | 50.5 | 1 | 5 | ng/dry g | | | | 12 25 PASS | |
| Benzo[k]fluoranthene | NA | 50.6 | 1 | 5 | ng/dry g | | | | 22 25 PASS | |
| Biphenyl | NA | ND | 1 | 5 | ng/dry g | | | | 0 25 PASS | |
| Chrysene | NA | 64.2 | 1 | 5 | ng/dry g | | | | 17 25 PASS | |
| Dibenz[a,h]anthracene | NA | 26.4 | 1 | 5 | ng/dry g | | | | 6 25 PASS | |
| Dibenzothiophene | NA | 2.1 | 1 | 5 | ng/dry g | | | | 0 25 PASS | J |
| Fluoranthene | NA | 39.5 | 1 | 5 | ng/dry g | | | | 30 25 FAIL | NH |
| Fluorene | NA | 1.4 | 1 | 5 | ng/dry g | | | | 35 25 FAIL | J,SL |
| Indeno[1,2,3-c,d]pyrene | NA | 65.6 | 1 | 5 | ng/dry g | | | | 13 25 PASS | |
| Naphthalene | NA | 3.8 | 1 | 5 | ng/dry g | | | | 10 25 PASS | J |
| Perylene | NA | 30.3 | 1 | 5 | ng/dry g | | | | 5 25 PASS | |
| Phenanthrene | NA | 13.5 | 1 | 5 | ng/dry g | | | | 29 25 FAIL | NH |
| Pyrene | NA | 45.3 | 1 | 5 | ng/dry g | | | | 30 25 FAIL | NH |

Sample ID: 21764-MS1 B13-8356

Matrix: Sediment

Sampled: 13-Jul-13 9:22

Received: 13-Jul-13

PHYSIS Project ID: 1307001-001

Client: AMEC

Project: POLA/POLB Harbor Toxics TMDL and Bight '13



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CA ELAP #2769

Polynuclear Aromatic Hydrocarbons

QUALITY CONTROL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | SPIKE LEVEL | SOURCE RESULT | ACCURACY % | PRECISION % | QA CODE | |
|----------------------------|----------|------------------|-----|---------------------|------------|---------------------|---------------|------------|-------------|---------|---|
| | | LIMITS | | | | | | LIMITS | | | |
| Method: EPA 8270C | | Batch ID: O-6005 | | Prepared: 24-Aug-13 | | Analyzed: 06-Sep-13 | | | | | |
| (d10-Acenaphthene) | NA | 94 | | | % Recovery | 100 | 0 | 94 | 50 - 150% | PASS | |
| (d10-Phenanthrene) | NA | 97 | | | % Recovery | 100 | 0 | 97 | 50 - 150% | PASS | |
| (d12-Chrysene) | NA | 86 | | | % Recovery | 100 | 0 | 86 | 50 - 150% | PASS | |
| (d8-Naphthalene) | NA | 72 | | | % Recovery | 100 | 0 | 72 | 25 - 125% | PASS | |
| 1-Methylnaphthalene | NA | 45.7 | 1 | 5 | ng/dry g | 46.4 | 1.5 | 95 | 50 - 150% | PASS | |
| 1-Methylphenanthrene | NA | 42 | 1 | 5 | ng/dry g | 46.4 | 2.7 | 85 | 50 - 150% | PASS | |
| 2,3,5-Trimethylnaphthalene | NA | 40.6 | 1 | 5 | ng/dry g | 46.4 | 0 | 87 | 50 - 150% | PASS | |
| 2,6-Dimethylnaphthalene | NA | 38.4 | 1 | 5 | ng/dry g | 46.4 | 2 | 78 | 50 - 150% | PASS | |
| 2-Methylnaphthalene | NA | 47.5 | 1 | 5 | ng/dry g | 46.4 | 3.2 | 95 | 50 - 150% | PASS | |
| Acenaphthene | NA | 37.9 | 1 | 5 | ng/dry g | 46.4 | 0 | 82 | 50 - 150% | PASS | |
| Acenaphthylene | NA | 40.5 | 1 | 5 | ng/dry g | 46.4 | 0 | 87 | 50 - 150% | PASS | |
| Anthracene | NA | 44.3 | 1 | 5 | ng/dry g | 46.4 | 6.6 | 81 | 50 - 150% | PASS | |
| Benz[a]anthracene | NA | 46 | 1 | 5 | ng/dry g | 46.4 | 33.9 | 26 | 50 - 150% | FAIL | M |
| Benzo[a]pyrene | NA | 43.8 | 1 | 5 | ng/dry g | 46.4 | 35.6 | 18 | 50 - 150% | FAIL | M |
| Benzo[b]fluoranthene | NA | 45.9 | 1 | 5 | ng/dry g | 46.4 | 13.6 | 70 | 50 - 150% | PASS | |
| Benzo[e]pyrene | NA | 46.2 | 1 | 5 | ng/dry g | 46.4 | 25.5 | 45 | 50 - 150% | FAIL | M |
| Benzo[g,h,i]perylene | NA | 46.9 | 1 | 5 | ng/dry g | 46.4 | 17.1 | 64 | 50 - 150% | PASS | |
| Benzo[k]fluoranthene | NA | 48 | 1 | 5 | ng/dry g | 46.4 | 4.9 | 93 | 50 - 150% | PASS | |
| Biphenyl | NA | 45.6 | 1 | 5 | ng/dry g | 46.4 | 0 | 98 | 50 - 150% | PASS | |
| Chrysene | NA | 40.3 | 1 | 5 | ng/dry g | 46.4 | 51 | -23 | 50 - 150% | FAIL | M |
| Dibenz[a,h]anthracene | NA | 43 | 1 | 5 | ng/dry g | 46.4 | 13.7 | 63 | 50 - 150% | PASS | |
| Dibenzothiophene | NA | 48.1 | 1 | 5 | ng/dry g | 46.4 | 1.5 | 100 | 50 - 150% | PASS | |
| Fluoranthene | NA | 46 | 1 | 5 | ng/dry g | 46.4 | 7.3 | 83 | 50 - 150% | PASS | |
| Fluorene | NA | 39.2 | 1 | 5 | ng/dry g | 46.4 | 0 | 84 | 50 - 150% | PASS | |
| Indeno[1,2,3-c,d]pyrene | NA | 38.5 | 1 | 5 | ng/dry g | 46.4 | 8.5 | 65 | 50 - 150% | PASS | |
| Naphthalene | NA | 42.9 | 1 | 5 | ng/dry g | 46.4 | 2.5 | 87 | 25 - 125% | PASS | |
| Perylene | NA | 45.9 | 1 | 5 | ng/dry g | 46.4 | 5.4 | 87 | 50 - 150% | PASS | |
| Phenanthrene | NA | 46.2 | 1 | 5 | ng/dry g | 46.4 | 6.3 | 86 | 50 - 150% | PASS | |
| Pyrene | NA | 36 | 1 | 5 | ng/dry g | 46.4 | 20.9 | 33 | 50 - 150% | FAIL | M |

Sample ID: 21764-MS2 B13-8356

Matrix: Sediment

Sampled: 13-Jul-13 9:22

Received: 13-Jul-13

PHYSIS Project ID: 1307001-001

Client: AMEC

Project: POLA/POLB Harbor Toxics TMDL and Bight '13



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CA ELAP #2769

Polynuclear Aromatic Hydrocarbons

QUALITY CONTROL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | SPIKE LEVEL | SOURCE RESULT | ACCURACY % | PRECISION % | QA CODE |
|----------------------------|----------|------------------|-----|---------------------|------------|---------------------|---------------|------------|----------------|---------------|
| | | LIMITS | | | | LIMITS | | | | |
| Method: EPA 8270C | | Batch ID: O-6005 | | Prepared: 24-Aug-13 | | Analyzed: 06-Sep-13 | | | | |
| (d10-Acenaphthene) | NA | 90 | | | % Recovery | 100 | 0 | 90 | 50 - 150% PASS | 4 25 PASS |
| (d10-Phenanthrene) | NA | 96 | | | % Recovery | 100 | 0 | 96 | 50 - 150% PASS | 1 25 PASS |
| (d12-Chrysene) | NA | 83 | | | % Recovery | 100 | 0 | 83 | 50 - 150% PASS | 4 25 PASS |
| (d8-Naphthalene) | NA | 64 | | | % Recovery | 100 | 0 | 64 | 25 - 125% PASS | 12 25 PASS |
| 1-Methylnaphthalene | NA | 41.7 | 1 | 5 | ng/dry g | 46.4 | 1.5 | 87 | 50 - 150% PASS | 9 25 PASS |
| 1-Methylphenanthrene | NA | 40.9 | 1 | 5 | ng/dry g | 46.4 | 2.7 | 82 | 50 - 150% PASS | 4 25 PASS |
| 2,3,5-Trimethylnaphthalene | NA | 39.2 | 1 | 5 | ng/dry g | 46.4 | 0 | 84 | 50 - 150% PASS | 4 25 PASS |
| 2,6-Dimethylnaphthalene | NA | 41.3 | 1 | 5 | ng/dry g | 46.4 | 2 | 85 | 50 - 150% PASS | 9 25 PASS |
| 2-Methylnaphthalene | NA | 43.1 | 1 | 5 | ng/dry g | 46.4 | 3.2 | 86 | 50 - 150% PASS | 10 25 PASS |
| Acenaphthene | NA | 46 | 1 | 5 | ng/dry g | 46.4 | 0 | 99 | 50 - 150% PASS | 19 25 PASS |
| Acenaphthylene | NA | 38.6 | 1 | 5 | ng/dry g | 46.4 | 0 | 83 | 50 - 150% PASS | 5 25 PASS |
| Anthracene | NA | 39.2 | 1 | 5 | ng/dry g | 46.4 | 6.6 | 70 | 50 - 150% PASS | 15 25 PASS |
| Benz[a]anthracene | NA | 46.6 | 1 | 5 | ng/dry g | 46.4 | 33.9 | 27 | 50 - 150% FAIL | 4 25 PASS M |
| Benzo[a]pyrene | NA | 42 | 1 | 5 | ng/dry g | 46.4 | 35.6 | 14 | 50 - 150% FAIL | 25 25 PASS M |
| Benzo[b]fluoranthene | NA | 37.9 | 1 | 5 | ng/dry g | 46.4 | 13.6 | 52 | 50 - 150% PASS | 30 25 FAIL NH |
| Benzo[e]pyrene | NA | 47.1 | 1 | 5 | ng/dry g | 46.4 | 25.5 | 47 | 50 - 150% FAIL | 4 25 PASS M |
| Benzo[g,h,i]perylene | NA | 42.1 | 1 | 5 | ng/dry g | 46.4 | 17.1 | 54 | 50 - 150% PASS | 17 25 PASS |
| Benzo[k]fluoranthene | NA | 42 | 1 | 5 | ng/dry g | 46.4 | 4.9 | 80 | 50 - 150% PASS | 15 25 PASS |
| Biphenyl | NA | 43 | 1 | 5 | ng/dry g | 46.4 | 0 | 93 | 50 - 150% PASS | 5 25 PASS |
| Chrysene | NA | 40.3 | 1 | 5 | ng/dry g | 46.4 | 51 | -23 | 50 - 150% FAIL | 0 25 PASS M |
| Dibenz[a,h]anthracene | NA | 42.9 | 1 | 5 | ng/dry g | 46.4 | 13.7 | 63 | 50 - 150% PASS | 0 25 PASS |
| Dibenzothiophene | NA | 46.7 | 1 | 5 | ng/dry g | 46.4 | 1.5 | 97 | 50 - 150% PASS | 3 25 PASS |
| Fluoranthene | NA | 44.5 | 1 | 5 | ng/dry g | 46.4 | 7.3 | 80 | 50 - 150% PASS | 4 25 PASS |
| Fluorene | NA | 37.7 | 1 | 5 | ng/dry g | 46.4 | 0 | 81 | 50 - 150% PASS | 4 25 PASS |
| Indeno[1,2,3-c,d]pyrene | NA | 40.1 | 1 | 5 | ng/dry g | 46.4 | 8.5 | 68 | 50 - 150% PASS | 5 25 PASS |
| Naphthalene | NA | 39.3 | 1 | 5 | ng/dry g | 46.4 | 2.5 | 79 | 25 - 125% PASS | 10 25 PASS |
| Perylene | NA | 46.5 | 1 | 5 | ng/dry g | 46.4 | 5.4 | 89 | 50 - 150% PASS | 2 25 PASS |
| Phenanthrene | NA | 49.1 | 1 | 5 | ng/dry g | 46.4 | 6.3 | 92 | 50 - 150% PASS | 7 25 PASS |
| Pyrene | NA | 36.1 | 1 | 5 | ng/dry g | 46.4 | 20.9 | 33 | 50 - 150% FAIL | 0 25 PASS M |

Sample ID: 21764-R2

B13-8356

Matrix: Sediment

Sampled: 13-Jul-13

9:22

Received: 13-Jul-13

PHYSIS Project ID: 1307001-001

Client: AMEC

Project: POLA/POLB Harbor Toxics TMDL and Bight '13



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CA ELAP #2769

Polynuclear Aromatic Hydrocarbons

QUALITY CONTROL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | SPIKE LEVEL | SOURCE RESULT | ACCURACY % LIMITS | PRECISION % LIMITS | QA CODE |
|----------------------------|----------|------------------|-----|---------------------|------------|---------------------|---------------|-------------------|--------------------|---------|
| Method: EPA 8270C | | Batch ID: O-6005 | | Prepared: 24-Aug-13 | | Analyzed: 06-Sep-13 | | | | |
| (d10-Acenaphthene) | NA | 80 | | | % Recovery | 100 | | 80 50 - 150% PASS | 4 25 PASS | |
| (d10-Phenanthrene) | NA | 85 | | | % Recovery | 100 | | 85 50 - 150% PASS | 1 25 PASS | |
| (d12-Chrysene) | NA | 78 | | | % Recovery | 100 | | 78 50 - 150% PASS | 15 25 PASS | |
| (d8-Naphthalene) | NA | 56 | | | % Recovery | 100 | | 56 25 - 125% PASS | 2 25 PASS | |
| 1-Methylnaphthalene | NA | 1.2 | 1 | 5 | ng/dry g | | | | 45 25 FAIL | J,SL |
| 1-Methylphenanthrene | NA | 3.4 | 1 | 5 | ng/dry g | | | | 57 25 FAIL | J,SL |
| 2,3,5-Trimethylnaphthalene | NA | ND | 1 | 5 | ng/dry g | | | | 0 25 PASS | |
| 2,6-Dimethylnaphthalene | NA | 1.5 | 1 | 5 | ng/dry g | | | | 46 25 FAIL | J,SL |
| 2-Methylnaphthalene | NA | 2.5 | 1 | 5 | ng/dry g | | | | 44 25 FAIL | J,SL |
| Acenaphthene | NA | ND | 1 | 5 | ng/dry g | | | | 0 25 PASS | |
| Acenaphthylene | NA | ND | 1 | 5 | ng/dry g | | | | 0 25 PASS | |
| Anthracene | NA | 6.6 | 1 | 5 | ng/dry g | | | | 0 25 PASS | |
| Benz[a]anthracene | NA | 52.1 | 1 | 5 | ng/dry g | | | | 107 25 FAIL | NH |
| Benzo[a]pyrene | NA | 49.8 | 1 | 5 | ng/dry g | | | | 80 25 FAIL | NH |
| Benzo[b]fluoranthene | NA | 18.1 | 1 | 5 | ng/dry g | | | | 67 25 FAIL | NH |
| Benzo[e]pyrene | NA | 35 | 1 | 5 | ng/dry g | | | | 75 25 FAIL | NH |
| Benzo[g,h,i]perylene | NA | 21.1 | 1 | 5 | ng/dry g | | | | 47 25 FAIL | NH |
| Benzo[k]fluoranthene | NA | 5.9 | 1 | 5 | ng/dry g | | | | 38 25 FAIL | SL |
| Biphenyl | NA | ND | 1 | 5 | ng/dry g | | | | 0 25 PASS | |
| Chrysene | NA | 81.2 | 1 | 5 | ng/dry g | | | | 118 25 FAIL | NH |
| Dibenz[a,h]anthracene | NA | 19.2 | 1 | 5 | ng/dry g | | | | 81 25 FAIL | NH |
| Dibenzothiophene | NA | 1.4 | 1 | 5 | ng/dry g | | | | 13 25 PASS | J |
| Fluoranthene | NA | 8.6 | 1 | 5 | ng/dry g | | | | 37 25 FAIL | SL |
| Fluorene | NA | ND | 1 | 5 | ng/dry g | | | | 0 25 PASS | |
| Indeno[1,2,3-c,d]pyrene | NA | 10.3 | 1 | 5 | ng/dry g | | | | 42 25 FAIL | NH |
| Naphthalene | NA | 2.2 | 1 | 5 | ng/dry g | | | | 24 25 PASS | J |
| Perylene | NA | 7.9 | 1 | 5 | ng/dry g | | | | 90 25 FAIL | SL |
| Phenanthrene | NA | 7.4 | 1 | 5 | ng/dry g | | | | 35 25 FAIL | SL |
| Pyrene | NA | 28.9 | 1 | 5 | ng/dry g | | | | 77 25 FAIL | NH |

Sample ID: 21888-CRM1

QAQC CRM - SRM 1944

Matrix: Sediment

Sampled:

Received:

PHYSIS Project ID: 1307001-001

Client: AMEC

Project: POLA/POLB Harbor Toxics TMDL and Bight '13



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CA ELAP #2769

Polynuclear Aromatic Hydrocarbons

QUALITY CONTROL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | SPIKE LEVEL | SOURCE RESULT | ACCURACY % | PRECISION % | QA CODE | |
|-------------------------|----------|-------------------|-----|----|------------------|-------------|---------------|---------------------|-------------|---------------------|--|
| | | LIMITS | | | | LIMITS | | | | | |
| | | Method: EPA 8270C | | | Batch ID: O-6001 | | | Prepared: 09-Aug-13 | | Analyzed: 09-Sep-13 | |
| (d10-Acenaphthene) | NA | 94 | | | % Recovery | 100 | | 94 | 50 - 150% | PASS | |
| (d10-Phenanthrene) | NA | 100 | | | % Recovery | 100 | | 100 | 50 - 150% | PASS | |
| (d12-Chrysene) | NA | 92 | | | % Recovery | 100 | | 92 | 50 - 150% | PASS | |
| (d8-Naphthalene) | NA | 55 | | | % Recovery | 100 | | 55 | 25 - 125% | PASS | |
| 1-Methylnaphthalene | NA | 370.6 | 1 | 5 | µg/dry g | 520 | | 71 | 70 - 130% | PASS | |
| 1-Methylphenanthrene | NA | 1517.9 | 1 | 5 | µg/dry g | 1700 | | 89 | 70 - 130% | PASS | |
| 2,6-Dimethylnaphthalene | NA | 608 | 1 | 5 | µg/dry g | 790 | | 77 | 70 - 130% | PASS | |
| 2-Methylnaphthalene | NA | 792.9 | 1 | 5 | µg/dry g | 950 | | 83 | 70 - 130% | PASS | |
| Acenaphthene | NA | 433.7 | 1 | 5 | µg/dry g | 570 | | 76 | 70 - 130% | PASS | |
| Anthracene | NA | 1968.5 | 1 | 5 | µg/dry g | 1770 | | 111 | 70 - 130% | PASS | |
| Benz[a]anthracene | NA | 4807.3 | 1 | 5 | µg/dry g | 4720 | | 102 | 70 - 130% | PASS | |
| Benzo[a]pyrene | NA | 3421.5 | 1 | 5 | µg/dry g | 4300 | | 80 | 70 - 130% | PASS | |
| Benzo[b]fluoranthene | NA | 3542.4 | 1 | 5 | µg/dry g | 3870 | | 92 | 70 - 130% | PASS | |
| Benzo[e]pyrene | NA | 2384.2 | 1 | 5 | µg/dry g | 3280 | | 73 | 70 - 130% | PASS | |
| Benzo[g,h,i]perylene | NA | 2479.8 | 1 | 5 | µg/dry g | 2840 | | 87 | 70 - 130% | PASS | |
| Benzo[k]fluoranthene | NA | 3145.6 | 1 | 5 | µg/dry g | 4390 | | 72 | 70 - 130% | PASS | |
| Biphenyl | NA | 222.5 | 1 | 5 | µg/dry g | 320 | | 70 | 70 - 130% | PASS | |
| Chrysene | NA | 5378.5 | 1 | 5 | µg/dry g | 5900 | | 91 | 70 - 130% | PASS | |
| Dibenz[a,h]anthracene | NA | 432.2 | 1 | 5 | µg/dry g | 424 | | 102 | 70 - 130% | PASS | |
| Dibenzothiophene | NA | 685.9 | 1 | 5 | µg/dry g | 620 | | 111 | 70 - 130% | PASS | |
| Fluoranthene | NA | 9608.8 | 1 | 5 | µg/dry g | 8920 | | 108 | 70 - 130% | PASS | |
| Fluorene | NA | 595.4 | 1 | 5 | µg/dry g | 850 | | 70 | 70 - 130% | PASS | |
| Indeno[1,2,3-c,d]pyrene | NA | 3562.8 | 1 | 5 | µg/dry g | 2780 | | 128 | 70 - 130% | PASS | |
| Naphthalene | NA | 1121.6 | 1 | 5 | µg/dry g | 1650 | | 68 | 70 - 130% | FAIL * | |
| Perylene | NA | 1169.3 | 1 | 5 | µg/dry g | 1170 | | 100 | 70 - 130% | PASS | |
| Phenanthrene | NA | 5572 | 1 | 5 | µg/dry g | 5270 | | 106 | 70 - 130% | PASS | |
| Pyrene | NA | 9250.3 | 1 | 5 | µg/dry g | 9700 | | 95 | 70 - 130% | PASS | |

Sample ID: 21889-CRM1

QAQC CRM - SRM 1944

Matrix: Sediment

Sampled:

Received:

Method: EPA 8270C

Batch ID: O-6003

Prepared: 15-Aug-13

Analyzed: 09-Sep-13

| | | | | | | | | | | |
|--------------------|----|----|--|--|------------|-----|--|----|-----------|------|
| (d10-Acenaphthene) | NA | 70 | | | % Recovery | 100 | | 70 | 50 - 150% | PASS |
|--------------------|----|----|--|--|------------|-----|--|----|-----------|------|



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CA ELAP #2769

Polynuclear Aromatic Hydrocarbons

QUALITY CONTROL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | SPIKE LEVEL | SOURCE RESULT | ACCURACY | | PRECISION | | QA CODE |
|-------------------------|----------|--------|-----|----|------------|-------------|---------------|----------|-----------|-----------|--------|---------|
| | | | | | | | | % | LIMITS | % | LIMITS | |
| (d10-Phenanthrene) | NA | 93 | | | % Recovery | 100 | | 93 | 50 - 150% | PASS | | |
| (d12-Chrysene) | NA | 92 | | | % Recovery | 100 | | 92 | 50 - 150% | PASS | | |
| (d8-Naphthalene) | NA | 51 | | | % Recovery | 100 | | 51 | 25 - 125% | PASS | | |
| 1-Methylnaphthalene | NA | 389 | 1 | 5 | µg/dry g | 520 | | 75 | 70 - 130% | PASS | | |
| 1-Methylphenanthrene | NA | 1189.5 | 1 | 5 | µg/dry g | 1700 | | 70 | 70 - 130% | PASS | | |
| 2,6-Dimethylnaphthalene | NA | 461.3 | 1 | 5 | µg/dry g | 790 | | 58 | 70 - 130% | FAIL | | R |
| 2-Methylnaphthalene | NA | 814.4 | 1 | 5 | µg/dry g | 950 | | 86 | 70 - 130% | PASS | | |
| Acenaphthene | NA | 430.1 | 1 | 5 | µg/dry g | 570 | | 75 | 70 - 130% | PASS | | |
| Anthracene | NA | 2119.5 | 1 | 5 | µg/dry g | 1770 | | 120 | 70 - 130% | PASS | | |
| Benz[a]anthracene | NA | 4428.1 | 1 | 5 | µg/dry g | 4720 | | 94 | 70 - 130% | PASS | | |
| Benzo[a]pyrene | NA | 3289.9 | 1 | 5 | µg/dry g | 4300 | | 77 | 70 - 130% | PASS | | |
| Benzo[b]fluoranthene | NA | 3396.9 | 1 | 5 | µg/dry g | 3870 | | 88 | 70 - 130% | PASS | | |
| Benzo[e]pyrene | NA | 2301.5 | 1 | 5 | µg/dry g | 3280 | | 70 | 70 - 130% | PASS | | |
| Benzo[g,h,i]perylene | NA | 2211.1 | 1 | 5 | µg/dry g | 2840 | | 78 | 70 - 130% | PASS | | |
| Benzo[k]fluoranthene | NA | 3275.5 | 1 | 5 | µg/dry g | 4390 | | 75 | 70 - 130% | PASS | | |
| Biphenyl | NA | 245 | 1 | 5 | µg/dry g | 320 | | 77 | 70 - 130% | PASS | | |
| Chrysene | NA | 5534.4 | 1 | 5 | µg/dry g | 5900 | | 94 | 70 - 130% | PASS | | |
| Dibenz[a,h]anthracene | NA | 354.4 | 1 | 5 | µg/dry g | 424 | | 84 | 70 - 130% | PASS | | |
| Dibenzothiophene | NA | 520.3 | 1 | 5 | µg/dry g | 620 | | 84 | 70 - 130% | PASS | | |
| Fluoranthene | NA | 8458.8 | 1 | 5 | µg/dry g | 8920 | | 95 | 70 - 130% | PASS | | |
| Fluorene | NA | 764.9 | 1 | 5 | µg/dry g | 850 | | 90 | 70 - 130% | PASS | | |
| Indeno[1,2,3-c,d]pyrene | NA | 3501.7 | 1 | 5 | µg/dry g | 2780 | | 126 | 70 - 130% | PASS | | |
| Naphthalene | NA | 1043.4 | 1 | 5 | µg/dry g | 1650 | | 63 | 70 - 130% | FAIL | | * |
| Perylene | NA | 974.1 | 1 | 5 | µg/dry g | 1170 | | 83 | 70 - 130% | PASS | | |
| Phenanthrene | NA | 4586.3 | 1 | 5 | µg/dry g | 5270 | | 87 | 70 - 130% | PASS | | |
| Pyrene | NA | 8022.9 | 1 | 5 | µg/dry g | 9700 | | 83 | 70 - 130% | PASS | | |



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CA ELAP #2769

Pyrethroids

QUALITY CONTROL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | SPIKE LEVEL | SOURCE RESULT | ACCURACY % | PRECISION % | QA CODE |
|---------|----------|--------|-----|----|-------|-------------|---------------|------------|-------------|---------|
| | | | | | | | | LIMITS | LIMITS | |

Sample ID: 21731-B1

QAQC Procedural Blank

Matrix: DI Water

Sampled:

Received:

Method: EPA 8270C-NCI

Batch ID: O-6001

Prepared: 09-Aug-13

Analyzed: 23-Aug-13

| | | | | | | | | | | |
|--------------------|----|----|------|-----|----------|--|--|--|--|--|
| Allethrin | NA | ND | 0.25 | 0.5 | ng/dry g | | | | | |
| Bifenthrin | NA | ND | 0.25 | 0.5 | ng/dry g | | | | | |
| Cyfluthrin | NA | ND | 0.25 | 0.5 | ng/dry g | | | | | |
| Cypermethrin | NA | ND | 0.25 | 0.5 | ng/dry g | | | | | |
| Esfenvalerate | NA | ND | 0.25 | 0.5 | ng/dry g | | | | | |
| Fenvalerate | NA | ND | 0.25 | 0.5 | ng/dry g | | | | | |
| Fluvalinate | NA | ND | 0.25 | 0.5 | ng/dry g | | | | | |
| L-Cyhalothrin | NA | ND | 0.25 | 0.5 | ng/dry g | | | | | |
| Permethrin, cis- | NA | ND | 0.25 | 0.5 | ng/dry g | | | | | |
| Permethrin, trans- | NA | ND | 0.25 | 0.5 | ng/dry g | | | | | |
| Prallethrin | NA | ND | 0.25 | 0.5 | ng/dry g | | | | | |
| Resmethrin | NA | ND | 0.25 | 0.5 | ng/dry g | | | | | |

Sample ID: 21731-BS1

QAQC Procedural Blank

Matrix: DI Water

Sampled:

Received:

Method: EPA 8270C-NCI

Batch ID: O-6001

Prepared: 09-Aug-13

Analyzed: 23-Aug-13

| | | | | | | | | | | |
|--------------------|----|-------|------|-----|----------|-----|---|-----|-----------|------|
| Allethrin | NA | 771.8 | 0.25 | 0.5 | ng/dry g | 800 | 0 | 96 | 50 - 150% | PASS |
| Bifenthrin | NA | 737.6 | 0.25 | 0.5 | ng/dry g | 800 | 0 | 92 | 50 - 150% | PASS |
| Cyfluthrin | NA | 489.7 | 0.25 | 0.5 | ng/dry g | 800 | 0 | 61 | 50 - 150% | PASS |
| Cypermethrin | NA | 541.5 | 0.25 | 0.5 | ng/dry g | 800 | 0 | 68 | 50 - 150% | PASS |
| Esfenvalerate | NA | 594.8 | 0.25 | 0.5 | ng/dry g | 800 | 0 | 74 | 50 - 150% | PASS |
| Fenvalerate | NA | 596.1 | 0.25 | 0.5 | ng/dry g | 800 | 0 | 75 | 50 - 150% | PASS |
| Fluvalinate | NA | 523.1 | 0.25 | 0.5 | ng/dry g | 800 | 0 | 65 | 50 - 150% | PASS |
| L-Cyhalothrin | NA | 546.8 | 0.25 | 0.5 | ng/dry g | 800 | 0 | 68 | 50 - 150% | PASS |
| Permethrin, cis- | NA | 159.9 | 0.25 | 0.5 | ng/dry g | 211 | 0 | 76 | 50 - 150% | PASS |
| Permethrin, trans- | NA | 456.4 | 0.25 | 0.5 | ng/dry g | 574 | 0 | 80 | 50 - 150% | PASS |
| Prallethrin | NA | 802.2 | 0.25 | 0.5 | ng/dry g | 800 | 0 | 100 | 50 - 150% | PASS |
| Resmethrin | NA | 661.8 | 0.25 | 0.5 | ng/dry g | 800 | 0 | 83 | 50 - 150% | PASS |

Sample ID: 21731-BS2

QAQC Procedural Blank

Matrix: DI Water

Sampled:

Received:



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CA ELAP #2769

Pyrethroids

QUALITY CONTROL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | SPIKE LEVEL | SOURCE RESULT | ACCURACY % | LIMITS | PRECISION % | LIMITS | QA CODE | |
|--------------------|----------|-----------------------|------|-----|------------------|-------------|---------------|---------------------|-----------|-------------|---------------------|---------|--|
| | | Method: EPA 8270C-NCI | | | Batch ID: O-6001 | | | Prepared: 09-Aug-13 | | | Analyzed: 23-Aug-13 | | |
| Allethrin | NA | 723.8 | 0.25 | 0.5 | ng/dry g | 800 | 0 | 90 | 50 - 150% | PASS | 6 25 | PASS | |
| Bifenthrin | NA | 780.7 | 0.25 | 0.5 | ng/dry g | 800 | 0 | 98 | 50 - 150% | PASS | 6 25 | PASS | |
| Cyfluthrin | NA | 523.6 | 0.25 | 0.5 | ng/dry g | 800 | 0 | 65 | 50 - 150% | PASS | 6 25 | PASS | |
| Cypermethrin | NA | 528.7 | 0.25 | 0.5 | ng/dry g | 800 | 0 | 66 | 50 - 150% | PASS | 3 25 | PASS | |
| Esfenvalerate | NA | 625.9 | 0.25 | 0.5 | ng/dry g | 800 | 0 | 78 | 50 - 150% | PASS | 5 25 | PASS | |
| Fenvalerate | NA | 622 | 0.25 | 0.5 | ng/dry g | 800 | 0 | 78 | 50 - 150% | PASS | 4 25 | PASS | |
| Fluvalinate | NA | 547.5 | 0.25 | 0.5 | ng/dry g | 800 | 0 | 68 | 50 - 150% | PASS | 5 25 | PASS | |
| L-Cyhalothrin | NA | 505.2 | 0.25 | 0.5 | ng/dry g | 800 | 0 | 63 | 50 - 150% | PASS | 8 25 | PASS | |
| Permethrin, cis- | NA | 151 | 0.25 | 0.5 | ng/dry g | 211 | 0 | 72 | 50 - 150% | PASS | 5 25 | PASS | |
| Permethrin, trans- | NA | 415.5 | 0.25 | 0.5 | ng/dry g | 574 | 0 | 72 | 50 - 150% | PASS | 11 25 | PASS | |
| Prallethrin | NA | 755.2 | 0.25 | 0.5 | ng/dry g | 800 | 0 | 94 | 50 - 150% | PASS | 6 25 | PASS | |
| Resmethrin | NA | 613.8 | 0.25 | 0.5 | ng/dry g | 800 | 0 | 77 | 50 - 150% | PASS | 8 25 | PASS | |

Sample ID: 21732-B1

QAQC Procedural Blank

Matrix: DI Water

Sampled:

Received:

Method: EPA 8270C-NCI

Batch ID: O-6005

Prepared: 24-Aug-13

Analyzed: 06-Sep-13

| | | | | | | | | | | | | |
|--------------------|----|----|------|-----|----------|--|--|--|--|--|--|--|
| Allethrin | NA | ND | 0.25 | 0.5 | ng/dry g | | | | | | | |
| Bifenthrin | NA | ND | 0.25 | 0.5 | ng/dry g | | | | | | | |
| Cyfluthrin | NA | ND | 0.25 | 0.5 | ng/dry g | | | | | | | |
| Cypermethrin | NA | ND | 0.25 | 0.5 | ng/dry g | | | | | | | |
| Esfenvalerate | NA | ND | 0.25 | 0.5 | ng/dry g | | | | | | | |
| Fenvalerate | NA | ND | 0.25 | 0.5 | ng/dry g | | | | | | | |
| Fluvalinate | NA | ND | 0.25 | 0.5 | ng/dry g | | | | | | | |
| L-Cyhalothrin | NA | ND | 0.25 | 0.5 | ng/dry g | | | | | | | |
| Permethrin, cis- | NA | ND | 0.25 | 0.5 | ng/dry g | | | | | | | |
| Permethrin, trans- | NA | ND | 0.25 | 0.5 | ng/dry g | | | | | | | |
| Prallethrin | NA | ND | 0.25 | 0.5 | ng/dry g | | | | | | | |
| Resmethrin | NA | ND | 0.25 | 0.5 | ng/dry g | | | | | | | |

Sample ID: 21732-BS1

QAQC Procedural Blank

Matrix: DI Water

Sampled:

Received:

Method: EPA 8270C-NCI

Batch ID: O-6005

Prepared: 24-Aug-13

Analyzed: 06-Sep-13

| | | | | | | | | | | | | |
|-----------|----|-------|------|-----|----------|-----|---|----|-----------|------|--|--|
| Allethrin | NA | 688.3 | 0.25 | 0.5 | ng/dry g | 800 | 0 | 86 | 50 - 150% | PASS | | |
|-----------|----|-------|------|-----|----------|-----|---|----|-----------|------|--|--|



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CA ELAP #2769

Pyrethroids

QUALITY CONTROL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | SPIKE LEVEL | SOURCE RESULT | ACCURACY | | PRECISION | | QA CODE |
|--------------------|----------|--------|------|-----|----------|-------------|---------------|----------|-----------|-----------|--------|---------|
| | | | | | | | | % | LIMITS | % | LIMITS | |
| Bifenthrin | NA | 636.7 | 0.25 | 0.5 | ng/dry g | 800 | 0 | 80 | 50 - 150% | PASS | | |
| Cyfluthrin | NA | 756.8 | 0.25 | 0.5 | ng/dry g | 800 | 0 | 95 | 50 - 150% | PASS | | |
| Cypermethrin | NA | 782.4 | 0.25 | 0.5 | ng/dry g | 800 | 0 | 98 | 50 - 150% | PASS | | |
| Esfenvalerate | NA | 757.5 | 0.25 | 0.5 | ng/dry g | 800 | 0 | 95 | 50 - 150% | PASS | | |
| Fenvalerate | NA | 688.5 | 0.25 | 0.5 | ng/dry g | 800 | 0 | 86 | 50 - 150% | PASS | | |
| Fluvalinate | NA | 818 | 0.25 | 0.5 | ng/dry g | 800 | 0 | 102 | 50 - 150% | PASS | | |
| L-Cyhalothrin | NA | 792.1 | 0.25 | 0.5 | ng/dry g | 800 | 0 | 99 | 50 - 150% | PASS | | |
| Permethrin, cis- | NA | 122.2 | 0.25 | 0.5 | ng/dry g | 211 | 0 | 58 | 50 - 150% | PASS | | |
| Permethrin, trans- | NA | 330.6 | 0.25 | 0.5 | ng/dry g | 574 | 0 | 58 | 50 - 150% | PASS | | |
| Prallethrin | NA | 779.6 | 0.25 | 0.5 | ng/dry g | 800 | 0 | 97 | 50 - 150% | PASS | | |
| Resmethrin | NA | 578.3 | 0.25 | 0.5 | ng/dry g | 800 | 0 | 72 | 50 - 150% | PASS | | |

Sample ID: 21732-BS2

QAQC Procedural Blank
Method: EPA 8270C-NCI

Matrix: DI Water
Batch ID: O-6005

Sampled:
Prepared: 24-Aug-13

Received:
Analyzed: 06-Sep-13

| | | | | | | | | | | | | | |
|--------------------|----|-------|------|-----|----------|-----|---|-----|-----------|------|----|----|------|
| Allethrin | NA | 604.9 | 0.25 | 0.5 | ng/dry g | 800 | 0 | 76 | 50 - 150% | PASS | 12 | 25 | PASS |
| Bifenthrin | NA | 663.2 | 0.25 | 0.5 | ng/dry g | 800 | 0 | 83 | 50 - 150% | PASS | 4 | 25 | PASS |
| Cyfluthrin | NA | 800.5 | 0.25 | 0.5 | ng/dry g | 800 | 0 | 100 | 50 - 150% | PASS | 5 | 25 | PASS |
| Cypermethrin | NA | 796.8 | 0.25 | 0.5 | ng/dry g | 800 | 0 | 100 | 50 - 150% | PASS | 2 | 25 | PASS |
| Esfenvalerate | NA | 791.1 | 0.25 | 0.5 | ng/dry g | 800 | 0 | 99 | 50 - 150% | PASS | 4 | 25 | PASS |
| Fenvalerate | NA | 737.1 | 0.25 | 0.5 | ng/dry g | 800 | 0 | 92 | 50 - 150% | PASS | 7 | 25 | PASS |
| Fluvalinate | NA | 844.6 | 0.25 | 0.5 | ng/dry g | 800 | 0 | 106 | 50 - 150% | PASS | 4 | 25 | PASS |
| L-Cyhalothrin | NA | 856.1 | 0.25 | 0.5 | ng/dry g | 800 | 0 | 107 | 50 - 150% | PASS | 8 | 25 | PASS |
| Permethrin, cis- | NA | 128.3 | 0.25 | 0.5 | ng/dry g | 211 | 0 | 61 | 50 - 150% | PASS | 5 | 25 | PASS |
| Permethrin, trans- | NA | 377.6 | 0.25 | 0.5 | ng/dry g | 574 | 0 | 66 | 50 - 150% | PASS | 13 | 25 | PASS |
| Prallethrin | NA | 800.9 | 0.25 | 0.5 | ng/dry g | 800 | 0 | 100 | 50 - 150% | PASS | 3 | 25 | PASS |
| Resmethrin | NA | 494.9 | 0.25 | 0.5 | ng/dry g | 800 | 0 | 62 | 50 - 150% | PASS | 15 | 25 | PASS |

Sample ID: 21733-B1

B13-8382
Method: EPA 8270C-NCI

Matrix: Sediment
Batch ID: O-6003

Sampled: 10-Jul-13 11:04
Prepared: 15-Aug-13

Received: 13-Jul-13
Analyzed: 25-Aug-13

| | | | | | | | | | | | | | |
|------------|----|----|------|-----|----------|--|--|--|--|--|--|--|--|
| Allethrin | NA | ND | 0.25 | 0.5 | ng/dry g | | | | | | | | |
| Bifenthrin | NA | ND | 0.25 | 0.5 | ng/dry g | | | | | | | | |
| Cyfluthrin | NA | ND | 0.25 | 0.5 | ng/dry g | | | | | | | | |



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CA ELAP #2769

Pyrethroids

QUALITY CONTROL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | SPIKE LEVEL | SOURCE RESULT | ACCURACY % | PRECISION % | QA CODE |
|--------------------|----------|--------|------|-----|----------|-------------|---------------|------------|-------------|---------|
| | | | | | | | | LIMITS | LIMITS | |
| Cypermethrin | NA | ND | 0.25 | 0.5 | ng/dry g | | | | | |
| Esfenvalerate | NA | ND | 0.25 | 0.5 | ng/dry g | | | | | |
| Fenvalerate | NA | ND | 0.25 | 0.5 | ng/dry g | | | | | |
| Fluvalinate | NA | ND | 0.25 | 0.5 | ng/dry g | | | | | |
| L-Cyhalothrin | NA | ND | 0.25 | 0.5 | ng/dry g | | | | | |
| Permethrin, cis- | NA | ND | 0.25 | 0.5 | ng/dry g | | | | | |
| Permethrin, trans- | NA | ND | 0.25 | 0.5 | ng/dry g | | | | | |
| Prallethrin | NA | ND | 0.25 | 0.5 | ng/dry g | | | | | |
| Resmethrin | NA | ND | 0.25 | 0.5 | ng/dry g | | | | | |

Sample ID: 21733-BS1

B13-8382

Matrix: Sediment

Sampled: 10-Jul-13

11:04

Received: 13-Jul-13

Method: EPA 8270C-NCI

Batch ID: O-6003

Prepared: 15-Aug-13

Analyzed: 25-Aug-13

| | | | | | | | | | | |
|--------------------|----|-------|------|-----|----------|-----|---|-----|-----------|------|
| Allethrin | NA | 839.8 | 0.25 | 0.5 | ng/dry g | 800 | 0 | 105 | 50 - 150% | PASS |
| Bifenthrin | NA | 802.8 | 0.25 | 0.5 | ng/dry g | 800 | 0 | 100 | 50 - 150% | PASS |
| Cyfluthrin | NA | 758.4 | 0.25 | 0.5 | ng/dry g | 800 | 0 | 95 | 50 - 150% | PASS |
| Cypermethrin | NA | 774.2 | 0.25 | 0.5 | ng/dry g | 800 | 0 | 97 | 50 - 150% | PASS |
| Esfenvalerate | NA | 726.5 | 0.25 | 0.5 | ng/dry g | 800 | 0 | 91 | 50 - 150% | PASS |
| Fenvalerate | NA | 703.1 | 0.25 | 0.5 | ng/dry g | 800 | 0 | 88 | 50 - 150% | PASS |
| Fluvalinate | NA | 704.9 | 0.25 | 0.5 | ng/dry g | 800 | 0 | 88 | 50 - 150% | PASS |
| L-Cyhalothrin | NA | 703.3 | 0.25 | 0.5 | ng/dry g | 800 | 0 | 88 | 50 - 150% | PASS |
| Permethrin, cis- | NA | 176.8 | 0.25 | 0.5 | ng/dry g | 211 | 0 | 84 | 50 - 150% | PASS |
| Permethrin, trans- | NA | 533.2 | 0.25 | 0.5 | ng/dry g | 574 | 0 | 93 | 50 - 150% | PASS |
| Prallethrin | NA | 765.4 | 0.25 | 0.5 | ng/dry g | 800 | 0 | 96 | 50 - 150% | PASS |
| Resmethrin | NA | 729.8 | 0.25 | 0.5 | ng/dry g | 800 | 0 | 91 | 50 - 150% | PASS |

Sample ID: 21733-BS2

B13-8382

Matrix: Sediment

Sampled: 10-Jul-13

11:04

Received: 13-Jul-13

Method: EPA 8270C-NCI

Batch ID: O-6003

Prepared: 15-Aug-13

Analyzed: 25-Aug-13

| | | | | | | | | | | | | | |
|---------------|----|-------|------|-----|----------|-----|---|-----|-----------|------|---|----|------|
| Allethrin | NA | 837.5 | 0.25 | 0.5 | ng/dry g | 800 | 0 | 105 | 50 - 150% | PASS | 0 | 25 | PASS |
| Bifenthrin | NA | 780.5 | 0.25 | 0.5 | ng/dry g | 800 | 0 | 98 | 50 - 150% | PASS | 2 | 25 | PASS |
| Cyfluthrin | NA | 760.9 | 0.25 | 0.5 | ng/dry g | 800 | 0 | 95 | 50 - 150% | PASS | 0 | 25 | PASS |
| Cypermethrin | NA | 815.8 | 0.25 | 0.5 | ng/dry g | 800 | 0 | 102 | 50 - 150% | PASS | 5 | 25 | PASS |
| Esfenvalerate | NA | 719.7 | 0.25 | 0.5 | ng/dry g | 800 | 0 | 90 | 50 - 150% | PASS | 1 | 25 | PASS |



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CA ELAP #2769

Pyrethroids

QUALITY CONTROL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | SPIKE LEVEL | SOURCE RESULT | ACCURACY | | PRECISION | | QA CODE | |
|--------------------|----------|--------|------|-----|----------|-------------|---------------|----------|-----------|-----------|--------|---------|------|
| | | | | | | | | % | LIMITS | % | LIMITS | | |
| Fenvalerate | NA | 697.7 | 0.25 | 0.5 | ng/dry g | 800 | 0 | 87 | 50 - 150% | PASS | 1 | 25 | PASS |
| Fluvalinate | NA | 702.6 | 0.25 | 0.5 | ng/dry g | 800 | 0 | 88 | 50 - 150% | PASS | 0 | 25 | PASS |
| L-Cyhalothrin | NA | 700.8 | 0.25 | 0.5 | ng/dry g | 800 | 0 | 88 | 50 - 150% | PASS | 0 | 25 | PASS |
| Permethrin, cis- | NA | 188.1 | 0.25 | 0.5 | ng/dry g | 211 | 0 | 89 | 50 - 150% | PASS | 6 | 25 | PASS |
| Permethrin, trans- | NA | 561.2 | 0.25 | 0.5 | ng/dry g | 574 | 0 | 98 | 50 - 150% | PASS | 5 | 25 | PASS |
| Prallethrin | NA | 790.2 | 0.25 | 0.5 | ng/dry g | 800 | 0 | 99 | 50 - 150% | PASS | 3 | 25 | PASS |
| Resmethrin | NA | 727.5 | 0.25 | 0.5 | ng/dry g | 800 | 0 | 91 | 50 - 150% | PASS | 0 | 25 | PASS |

Sample ID: 21744-MS1

B13-8308

Matrix: Sediment

Sampled: 11-Jul-13

17:06

Received: 13-Jul-13

Method: EPA 8270C-NCI

Batch ID: O-6003

Prepared: 15-Aug-13

Analyzed: 25-Aug-13

| | | | | | | | | | | | | | |
|--------------------|----|-------|------|-----|----------|-------|---|-----|-----------|------|--|--|--|
| Allethrin | NA | 11.46 | 0.25 | 0.5 | ng/dry g | 11.68 | 0 | 98 | 50 - 150% | PASS | | | |
| Bifenthrin | NA | 12.82 | 0.25 | 0.5 | ng/dry g | 11.68 | 0 | 110 | 50 - 150% | PASS | | | |
| Cyfluthrin | NA | 11.74 | 0.25 | 0.5 | ng/dry g | 11.68 | 0 | 101 | 50 - 150% | PASS | | | |
| Cypermethrin | NA | 11.61 | 0.25 | 0.5 | ng/dry g | 11.68 | 0 | 99 | 50 - 150% | PASS | | | |
| Esfenvalerate | NA | 12.61 | 0.25 | 0.5 | ng/dry g | 11.68 | 0 | 108 | 50 - 150% | PASS | | | |
| Fenvalerate | NA | 12.73 | 0.25 | 0.5 | ng/dry g | 11.68 | 0 | 109 | 50 - 150% | PASS | | | |
| Fluvalinate | NA | 12.27 | 0.25 | 0.5 | ng/dry g | 11.68 | 0 | 105 | 50 - 150% | PASS | | | |
| L-Cyhalothrin | NA | 12.55 | 0.25 | 0.5 | ng/dry g | 11.68 | 0 | 107 | 50 - 150% | PASS | | | |
| Permethrin, cis- | NA | 3.27 | 0.25 | 0.5 | ng/dry g | 3.09 | 0 | 106 | 50 - 150% | PASS | | | |
| Permethrin, trans- | NA | 9.41 | 0.25 | 0.5 | ng/dry g | 8.38 | 0 | 112 | 50 - 150% | PASS | | | |
| Prallethrin | NA | 10.17 | 0.25 | 0.5 | ng/dry g | 11.68 | 0 | 87 | 50 - 150% | PASS | | | |
| Resmethrin | NA | 10.14 | 0.25 | 0.5 | ng/dry g | 11.68 | 0 | 87 | 50 - 150% | PASS | | | |

Sample ID: 21744-MS2

B13-8308

Matrix: Sediment

Sampled: 11-Jul-13

17:06

Received: 13-Jul-13

Method: EPA 8270C-NCI

Batch ID: O-6003

Prepared: 15-Aug-13

Analyzed: 25-Aug-13

| | | | | | | | | | | | | | |
|---------------|----|-------|------|-----|----------|-------|---|-----|-----------|------|---|----|------|
| Allethrin | NA | 10.6 | 0.25 | 0.5 | ng/dry g | 11.29 | 0 | 94 | 50 - 150% | PASS | 4 | 25 | PASS |
| Bifenthrin | NA | 11.52 | 0.25 | 0.5 | ng/dry g | 11.29 | 0 | 102 | 50 - 150% | PASS | 8 | 25 | PASS |
| Cyfluthrin | NA | 11.48 | 0.25 | 0.5 | ng/dry g | 11.29 | 0 | 102 | 50 - 150% | PASS | 1 | 25 | PASS |
| Cypermethrin | NA | 11.58 | 0.25 | 0.5 | ng/dry g | 11.29 | 0 | 103 | 50 - 150% | PASS | 4 | 25 | PASS |
| Esfenvalerate | NA | 11.41 | 0.25 | 0.5 | ng/dry g | 11.29 | 0 | 101 | 50 - 150% | PASS | 7 | 25 | PASS |
| Fenvalerate | NA | 11.8 | 0.25 | 0.5 | ng/dry g | 11.29 | 0 | 105 | 50 - 150% | PASS | 4 | 25 | PASS |
| Fluvalinate | NA | 11.1 | 0.25 | 0.5 | ng/dry g | 11.29 | 0 | 98 | 50 - 150% | PASS | 7 | 25 | PASS |



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CA ELAP #2769

Pyrethroids

QUALITY CONTROL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | SPIKE LEVEL | SOURCE RESULT | ACCURACY | | PRECISION | | QA CODE | |
|--------------------|----------|--------|------|-----|----------|-------------|---------------|----------|-----------|-----------|--------|---------|------|
| | | | | | | | | % | LIMITS | % | LIMITS | | |
| L-Cyhalothrin | NA | 11.85 | 0.25 | 0.5 | ng/dry g | 11.29 | 0 | 105 | 50 - 150% | PASS | 2 | 25 | PASS |
| Permethrin, cis- | NA | 3.19 | 0.25 | 0.5 | ng/dry g | 2.98 | 0 | 107 | 50 - 150% | PASS | 1 | 25 | PASS |
| Permethrin, trans- | NA | 7.67 | 0.25 | 0.5 | ng/dry g | 8.1 | 0 | 95 | 50 - 150% | PASS | 16 | 25 | PASS |
| Prallethrin | NA | 10.96 | 0.25 | 0.5 | ng/dry g | 11.29 | 0 | 97 | 50 - 150% | PASS | 11 | 25 | PASS |
| Resmethrin | NA | 9.28 | 0.25 | 0.5 | ng/dry g | 11.29 | 0 | 82 | 50 - 150% | PASS | 6 | 25 | PASS |

Sample ID: 21744-R2

B13-8308

Matrix: Sediment

Sampled: 11-Jul-13

17:06

Received: 13-Jul-13

Method: EPA 8270C-NCI

Batch ID: O-6003

Prepared: 15-Aug-13

Analyzed: 25-Aug-13

| | | | | | | | | | | | | | |
|--------------------|----|----|------|-----|----------|--|--|--|--|--|---|----|------|
| Allethrin | NA | ND | 0.25 | 0.5 | ng/dry g | | | | | | 0 | 25 | PASS |
| Bifenthrin | NA | ND | 0.25 | 0.5 | ng/dry g | | | | | | 0 | 25 | PASS |
| Cyfluthrin | NA | ND | 0.25 | 0.5 | ng/dry g | | | | | | 0 | 25 | PASS |
| Cypermethrin | NA | ND | 0.25 | 0.5 | ng/dry g | | | | | | 0 | 25 | PASS |
| Esfenvalerate | NA | ND | 0.25 | 0.5 | ng/dry g | | | | | | 0 | 25 | PASS |
| Fenvalerate | NA | ND | 0.25 | 0.5 | ng/dry g | | | | | | 0 | 25 | PASS |
| Fluvalinate | NA | ND | 0.25 | 0.5 | ng/dry g | | | | | | 0 | 25 | PASS |
| L-Cyhalothrin | NA | ND | 0.25 | 0.5 | ng/dry g | | | | | | 0 | 25 | PASS |
| Permethrin, cis- | NA | ND | 0.25 | 0.5 | ng/dry g | | | | | | 0 | 25 | PASS |
| Permethrin, trans- | NA | ND | 0.25 | 0.5 | ng/dry g | | | | | | 0 | 25 | PASS |
| Prallethrin | NA | ND | 0.25 | 0.5 | ng/dry g | | | | | | 0 | 25 | PASS |
| Resmethrin | NA | ND | 0.25 | 0.5 | ng/dry g | | | | | | 0 | 25 | PASS |

Sample ID: 21753-MS1

B13-8397

Matrix: Sediment

Sampled: 12-Jul-13

11:20

Received: 13-Jul-13

Method: EPA 8270C-NCI

Batch ID: O-6001

Prepared: 09-Aug-13

Analyzed: 23-Aug-13

| | | | | | | | | | | | | | |
|------------------|----|-------|------|-----|----------|-------|---|-----|-----------|------|--|--|--|
| Allethrin | NA | 31.26 | 0.25 | 0.5 | ng/dry g | 24.34 | 0 | 128 | 50 - 150% | PASS | | | |
| Bifenthrin | NA | 29.94 | 0.25 | 0.5 | ng/dry g | 24.34 | 0 | 123 | 50 - 150% | PASS | | | |
| Cyfluthrin | NA | 24.34 | 0.25 | 0.5 | ng/dry g | 24.34 | 0 | 100 | 50 - 150% | PASS | | | |
| Cypermethrin | NA | 23.87 | 0.25 | 0.5 | ng/dry g | 24.34 | 0 | 98 | 50 - 150% | PASS | | | |
| Esfenvalerate | NA | 23.66 | 0.25 | 0.5 | ng/dry g | 24.34 | 0 | 97 | 50 - 150% | PASS | | | |
| Fenvalerate | NA | 24.86 | 0.25 | 0.5 | ng/dry g | 24.34 | 0 | 102 | 50 - 150% | PASS | | | |
| Fluvalinate | NA | 22.51 | 0.25 | 0.5 | ng/dry g | 24.34 | 0 | 92 | 50 - 150% | PASS | | | |
| L-Cyhalothrin | NA | 23.03 | 0.25 | 0.5 | ng/dry g | 24.34 | 0 | 95 | 50 - 150% | PASS | | | |
| Permethrin, cis- | NA | 7.53 | 0.25 | 0.5 | ng/dry g | 6.41 | 0 | 117 | 50 - 150% | PASS | | | |



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CA ELAP #2769

Pyrethroids

QUALITY CONTROL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | SPIKE LEVEL | SOURCE RESULT | ACCURACY % | PRECISION % | QA CODE |
|--------------------|----------|--------|------|-----|----------|-------------|---------------|---------------|-------------|---------|
| | | | | | | | | LIMITS | LIMITS | |
| Permethrin, trans- | NA | 20.6 | 0.25 | 0.5 | ng/dry g | 17.46 | 0 | 118 50 - 150% | PASS | |
| Prallethrin | NA | 25.01 | 0.25 | 0.5 | ng/dry g | 24.34 | 0 | 103 50 - 150% | PASS | |
| Resmethrin | NA | 13.07 | 0.25 | 0.5 | ng/dry g | 24.34 | 0 | 54 50 - 150% | PASS | |

Sample ID: 21753-MS2

B13-8397

Matrix: Sediment

Sampled: 12-Jul-13

11:20

Received: 13-Jul-13

Method: EPA 8270C-NCI

Batch ID: O-6001

Prepared: 09-Aug-13

Analyzed: 23-Aug-13

| | | | | | | | | | | |
|--------------------|----|-------|------|-----|----------|-------|---|---------------|------|------------|
| Allethrin | NA | 37.18 | 0.25 | 0.5 | ng/dry g | 26.61 | 0 | 140 50 - 150% | PASS | 9 25 PASS |
| Bifenthrin | NA | 38.01 | 0.25 | 0.5 | ng/dry g | 26.61 | 0 | 143 50 - 150% | PASS | 15 25 PASS |
| Cyfluthrin | NA | 25.84 | 0.25 | 0.5 | ng/dry g | 26.61 | 0 | 97 50 - 150% | PASS | 3 25 PASS |
| Cypermethrin | NA | 26.41 | 0.25 | 0.5 | ng/dry g | 26.61 | 0 | 99 50 - 150% | PASS | 1 25 PASS |
| Esfenvalerate | NA | 27.39 | 0.25 | 0.5 | ng/dry g | 26.61 | 0 | 103 50 - 150% | PASS | 6 25 PASS |
| Fenvalerate | NA | 27.75 | 0.25 | 0.5 | ng/dry g | 26.61 | 0 | 104 50 - 150% | PASS | 2 25 PASS |
| Fluvalinate | NA | 22.85 | 0.25 | 0.5 | ng/dry g | 26.61 | 0 | 86 50 - 150% | PASS | 7 25 PASS |
| L-Cyhalothrin | NA | 23.82 | 0.25 | 0.5 | ng/dry g | 26.61 | 0 | 90 50 - 150% | PASS | 5 25 PASS |
| Permethrin, cis- | NA | 8.95 | 0.25 | 0.5 | ng/dry g | 7.02 | 0 | 127 50 - 150% | PASS | 8 25 PASS |
| Permethrin, trans- | NA | 25.82 | 0.25 | 0.5 | ng/dry g | 19.1 | 0 | 135 50 - 150% | PASS | 13 25 PASS |
| Prallethrin | NA | 29.15 | 0.25 | 0.5 | ng/dry g | 26.61 | 0 | 110 50 - 150% | PASS | 7 25 PASS |
| Resmethrin | NA | 17.37 | 0.25 | 0.5 | ng/dry g | 26.61 | 0 | 65 50 - 150% | PASS | 18 25 PASS |

Sample ID: 21753-R2

B13-8397

Matrix: Sediment

Sampled: 12-Jul-13

11:20

Received: 13-Jul-13

Method: EPA 8270C-NCI

Batch ID: O-6001

Prepared: 09-Aug-13

Analyzed: 23-Aug-13

| | | | | | | | | | | |
|--------------------|----|----|------|-----|----------|--|--|--|--|-----------|
| Allethrin | NA | ND | 0.25 | 0.5 | ng/dry g | | | | | 0 25 PASS |
| Bifenthrin | NA | ND | 0.25 | 0.5 | ng/dry g | | | | | 0 25 PASS |
| Cyfluthrin | NA | ND | 0.25 | 0.5 | ng/dry g | | | | | 0 25 PASS |
| Cypermethrin | NA | ND | 0.25 | 0.5 | ng/dry g | | | | | 0 25 PASS |
| Esfenvalerate | NA | ND | 0.25 | 0.5 | ng/dry g | | | | | 0 25 PASS |
| Fenvalerate | NA | ND | 0.25 | 0.5 | ng/dry g | | | | | 0 25 PASS |
| Fluvalinate | NA | ND | 0.25 | 0.5 | ng/dry g | | | | | 0 25 PASS |
| L-Cyhalothrin | NA | ND | 0.25 | 0.5 | ng/dry g | | | | | 0 25 PASS |
| Permethrin, cis- | NA | ND | 0.25 | 0.5 | ng/dry g | | | | | 0 25 PASS |
| Permethrin, trans- | NA | ND | 0.25 | 0.5 | ng/dry g | | | | | 0 25 PASS |
| Prallethrin | NA | ND | 0.25 | 0.5 | ng/dry g | | | | | 0 25 PASS |



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CA ELAP #2769

Pyrethroids

QUALITY CONTROL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | SPIKE LEVEL | SOURCE RESULT | ACCURACY % | PRECISION % | QA CODE |
|------------|----------|--------|------|-----|----------|-------------|---------------|------------|-------------|---------|
| | | | | | | | | LIMITS | LIMITS | |
| Resmethrin | NA | ND | 0.25 | 0.5 | ng/dry g | | | | 0 25 | PASS |

Sample ID: 21764-MS1

B13-8356

Method: EPA 8270C-NCI

Matrix: Sediment

Batch ID: O-6005

Sampled: 13-Jul-13

9:22

Received: 13-Jul-13

Prepared: 24-Aug-13

Analyzed: 06-Sep-13

| | | | | | | | | | | | | |
|--------------------|----|-------|------|-----|----------|-------|---|-----|-----------|------|--|--|
| Allethrin | NA | 11.25 | 0.25 | 0.5 | ng/dry g | 11.18 | 0 | 101 | 50 - 150% | PASS | | |
| Bifenthrin | NA | 11.24 | 0.25 | 0.5 | ng/dry g | 11.18 | 0 | 101 | 50 - 150% | PASS | | |
| Cyfluthrin | NA | 9.71 | 0.25 | 0.5 | ng/dry g | 11.18 | 0 | 87 | 50 - 150% | PASS | | |
| Cypermethrin | NA | 9.31 | 0.25 | 0.5 | ng/dry g | 11.18 | 0 | 83 | 50 - 150% | PASS | | |
| Esfenvalerate | NA | 8.82 | 0.25 | 0.5 | ng/dry g | 11.18 | 0 | 79 | 50 - 150% | PASS | | |
| Fenvalerate | NA | 8.88 | 0.25 | 0.5 | ng/dry g | 11.18 | 0 | 79 | 50 - 150% | PASS | | |
| Fluvalinate | NA | 8.82 | 0.25 | 0.5 | ng/dry g | 11.18 | 0 | 79 | 50 - 150% | PASS | | |
| L-Cyhalothrin | NA | 11.6 | 0.25 | 0.5 | ng/dry g | 11.18 | 0 | 104 | 50 - 150% | PASS | | |
| Permethrin, cis- | NA | 2.52 | 0.25 | 0.5 | ng/dry g | 2.95 | 0 | 85 | 50 - 150% | PASS | | |
| Permethrin, trans- | NA | 8.38 | 0.25 | 0.5 | ng/dry g | 8.02 | 0 | 104 | 50 - 150% | PASS | | |
| Prallethrin | NA | 11.37 | 0.25 | 0.5 | ng/dry g | 11.18 | 0 | 102 | 50 - 150% | PASS | | |
| Resmethrin | NA | 9.97 | 0.25 | 0.5 | ng/dry g | 11.18 | 0 | 89 | 50 - 150% | PASS | | |

Sample ID: 21764-MS2

B13-8356

Method: EPA 8270C-NCI

Matrix: Sediment

Batch ID: O-6005

Sampled: 13-Jul-13

9:22

Received: 13-Jul-13

Prepared: 24-Aug-13

Analyzed: 06-Sep-13

| | | | | | | | | | | | | | | |
|--------------------|----|-------|------|-----|----------|-------|---|-----|-----------|------|----|----|------|---|
| Allethrin | NA | 11.46 | 0.25 | 0.5 | ng/dry g | 11.26 | 0 | 102 | 50 - 150% | PASS | 1 | 25 | PASS | |
| Bifenthrin | NA | 12.82 | 0.25 | 0.5 | ng/dry g | 11.26 | 0 | 114 | 50 - 150% | PASS | 12 | 25 | PASS | |
| Cyfluthrin | NA | 9.9 | 0.25 | 0.5 | ng/dry g | 11.26 | 0 | 88 | 50 - 150% | PASS | 1 | 25 | PASS | |
| Cypermethrin | NA | 9.93 | 0.25 | 0.5 | ng/dry g | 11.26 | 0 | 88 | 50 - 150% | PASS | 6 | 25 | PASS | |
| Esfenvalerate | NA | 7.89 | 0.25 | 0.5 | ng/dry g | 11.26 | 0 | 70 | 50 - 150% | PASS | 12 | 25 | PASS | |
| Fenvalerate | NA | 8.06 | 0.25 | 0.5 | ng/dry g | 11.26 | 0 | 72 | 50 - 150% | PASS | 9 | 25 | PASS | |
| Fluvalinate | NA | 8.85 | 0.25 | 0.5 | ng/dry g | 11.26 | 0 | 79 | 50 - 150% | PASS | 0 | 25 | PASS | |
| L-Cyhalothrin | NA | 12.24 | 0.25 | 0.5 | ng/dry g | 11.26 | 0 | 109 | 50 - 150% | PASS | 5 | 25 | PASS | |
| Permethrin, cis- | NA | 3.6 | 0.25 | 0.5 | ng/dry g | 2.97 | 0 | 121 | 50 - 150% | PASS | 35 | 25 | FAIL | R |
| Permethrin, trans- | NA | 9.35 | 0.25 | 0.5 | ng/dry g | 8.08 | 0 | 116 | 50 - 150% | PASS | 11 | 25 | PASS | |
| Prallethrin | NA | 11.59 | 0.25 | 0.5 | ng/dry g | 11.26 | 0 | 103 | 50 - 150% | PASS | 1 | 25 | PASS | |
| Resmethrin | NA | 10.18 | 0.25 | 0.5 | ng/dry g | 11.26 | 0 | 90 | 50 - 150% | PASS | 1 | 25 | PASS | |



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CA ELAP #2769

Pyrethroids

QUALITY CONTROL REPORT

| ANALYTE | FRACTION | RESULT | MDL | RL | UNITS | SPIKE LEVEL | SOURCE RESULT | ACCURACY % | PRECISION % | QA CODE |
|----------------------------|----------|-----------------------|------|-------------------------|----------|--------------------------------|---------------|----------------------------|-------------|---------|
| | | | | | | | | LIMITS | LIMITS | |
| Sample ID: 21764-R2 | | B13-8356 | | Matrix: Sediment | | Sampled: 13-Jul-13 9:22 | | Received: 13-Jul-13 | | |
| | | Method: EPA 8270C-NCI | | Batch ID: O-6005 | | Prepared: 24-Aug-13 | | Analyzed: 06-Sep-13 | | |
| Allethrin | NA | ND | 0.25 | 0.5 | ng/dry g | | | 0 | 25 | PASS |
| Bifenthrin | NA | ND | 0.25 | 0.5 | ng/dry g | | | 0 | 25 | PASS |
| Cyfluthrin | NA | ND | 0.25 | 0.5 | ng/dry g | | | 0 | 25 | PASS |
| Cypermethrin | NA | ND | 0.25 | 0.5 | ng/dry g | | | 0 | 25 | PASS |
| Esfenvalerate | NA | ND | 0.25 | 0.5 | ng/dry g | | | 0 | 25 | PASS |
| Fenvalerate | NA | ND | 0.25 | 0.5 | ng/dry g | | | 0 | 25 | PASS |
| Fluvalinate | NA | ND | 0.25 | 0.5 | ng/dry g | | | 0 | 25 | PASS |
| L-Cyhalothrin | NA | ND | 0.25 | 0.5 | ng/dry g | | | 0 | 25 | PASS |
| Permethrin, cis- | NA | ND | 0.25 | 0.5 | ng/dry g | | | 0 | 25 | PASS |
| Permethrin, trans- | NA | ND | 0.25 | 0.5 | ng/dry g | | | 0 | 25 | PASS |
| Prallethrin | NA | ND | 0.25 | 0.5 | ng/dry g | | | 0 | 25 | PASS |
| Resmethrin | NA | ND | 0.25 | 0.5 | ng/dry g | | | 0 | 25 | PASS |

SUBCONTRACT

REPORT

TERRA ENVIRONMENTAL LABORATORIES, INC.

Innovative Solutions for Nature



INSTITUTE FOR INTEGRATED RESEARCH IN MATERIALS, ENVIRONMENTS & SOCIETY

October 14, 2013

Physis Environmental Laboratories, Inc.
1904 E. Wright Circle
Anaheim, CA 92806

Re: IIRMES Project ID: 119-13-11
Physis Environmental Laboratories, In Project ID: 1307001-001

ATTN: Misty Mercier

IIRMES is pleased to provide you with the enclosed analytical data report for your 1307001-001 project. According to the chain-of-custody, 32 samples were received intact at IIRMES on 8/8/2013. Per your instructions, the samples were analyzed for:

- Total Nitrogen Using Method SM 5310 B
- Total Organic Carbon Using Method SM 5310 B

Please don't hesitate to call if you have any questions and thank you very much for using our laboratory for your analytical needs.

Regards,
Alexander Long

Reviewed and Approved _____

Project Sample List

Physis Environmental Laboratories, Inc.

IIRMES Project ID: 119-13-11

Project Officer: Misty Mercier

Project Description: 1307001-001

| <i>Sample ID#</i> | <i>Client Sample ID</i> | <i>Sample Description</i> | <i>Date Sampled</i> | <i>Matrix</i> |
|-------------------|-------------------------|---------------------------|---------------------|---------------|
| 8282 | QAQC | Lab Blank | | DI Water |
| 8283 | QAQC | SRM 1944 | | Sediment |
| 8284 | B13-8382 | | 10-Jul-13 | Sediment |
| 8285 | B13-8374 | | 10-Jul-13 | Sediment |
| 8286 | B13-8371 | | 10-Jul-13 | Sediment |
| 8287 | B13-8363 | | 10-Jul-13 | Sediment |
| 8288 | B13-8360 | | 10-Jul-13 | Sediment |
| 8289 | B13-8349 | | 10-Jul-13 | Sediment |
| 8290 | B13-8326 | | 10-Jul-13 | Sediment |
| 8291 | B13-8367 | | 11-Jul-13 | Sediment |
| 8292 | B13-8302 | | 11-Jul-13 | Sediment |
| 8293 | B13-8304 | | 11-Jul-13 | Sediment |
| 8294 | B13-8397 | | 12-Jul-13 | Sediment |
| 8295 | B13-8396 | | 12-Jul-13 | Sediment |
| 8296 | B13-8340 | | 12-Jul-13 | Sediment |
| 8297 | B13-8347 | | 12-Jul-13 | Sediment |
| 8298 | TMDL6-CP | | 12-Jul-13 | Sediment |
| 8299 | TMDL4-CS | | 12-Jul-13 | Sediment |
| 8300 | TMDL3-TB | | 12-Jul-13 | Sediment |
| 8301 | B13-8365 | | 13-Jul-13 | Sediment |
| 8302 | B13-8318 | | 13-Jul-13 | Sediment |
| 8303 | B13-8322 | | 13-Jul-13 | Sediment |
| 8304 | B13-8306 | | 11-Jul-13 | Sediment |
| 8305 | B13-8308 | | 11-Jul-13 | Sediment |

Project Sample List

Physis Environmental Laboratories, Inc.

IIRMES Project ID: 119-13-11

Project Officer: Misty Mercier

Project Description: 1307001-001

| | | | |
|------|----------|-----------|----------|
| 8306 | B13-8310 | 11-Jul-13 | Sediment |
| 8307 | B13-8316 | 11-Jul-13 | Sediment |
| 8308 | TMDL2-FH | 11-Jul-13 | Sediment |
| 8309 | TMDL1-CH | 11-Jul-13 | Sediment |
| 8310 | TMDL5-DT | 11-Jul-13 | Sediment |
| 8311 | B13-8401 | 12-Jul-13 | Sediment |
| 8312 | B13-8399 | 12-Jul-13 | Sediment |
| 8313 | B13-8384 | 12-Jul-13 | Sediment |
| 8314 | B13-8333 | 13-Jul-13 | Sediment |
| 8315 | B13-8356 | 13-Jul-13 | Sediment |



Institute for Integrated Research in Materials, Environments, and Society

Quality Assurance Summary

Laboratory Batch: The IIRMES Quality Manual (QM) defines a laboratory batch as a group of 20 or fewer samples of similar matrix that are processed together under the same conditions using the same reagents. QC samples are associated with each batch and are used to assess the validity of the sample analyses.

Procedural Blank: Potential laboratory contamination during sample processing and analysis is monitored through the analysis of procedural blanks at a minimum frequency of 1 per batch. The IIRMES QM requires that all measurable procedural blank constituents be less than 10x the MDL and that any detectable constituents be flagged in the project sample results with a *B* qualifier.

Accuracy: Accuracy of the project data is indicated by the analysis of a combination of blank spikes (BS), matrix spikes (MS), laboratory control spikes (LCS), certified reference materials (CRM), and/or surrogate spikes at a minimum frequency of 1 per batch. The IIRMES QM requires that 95% of the compounds greater than 10x the MDL be within the specified acceptance limits.

Precision: Precision of the project data is determined by the analysis of duplicate matrix spikes, blank spikes, and/or duplicate test sample analysis on a minimum frequency of 1 per batch. The IIRMES QM requires that for 95% of the compounds greater than 10x the MDL, the relative percent difference (RPD) be within the specified acceptance range.

Holding Time: The IIRMES QM requires that all samples be processed and analyzed within the method specific recommended holding times. Those sample analyses falling outside that specified holding time will be flagged in the sample results with a *H*.

Total/Dissolved Fraction: In some instances the results for the dissolved fraction may be higher than the total fraction for a particular analyte. This is typically caused by the corresponding analytical variation for each result and indicates the target analyte is primarily in the dissolved phase of the sample.



Institute for Integrated Research in Materials, Environments, and Society

IIRMES Qualifier Codes

| <u>Code</u> | <u>Definition</u> |
|--------------------|--|
| ND | Analyte not detected at or above the listed MDL |
| B | Analyte was detected in the associated procedural blank |
| H | Sample was received and/or analyzed past the recommended holding time |
| J | Analyte was detected at a concentration above the MDL but below the RL, therefore the reported value is estimated |
| N | Insufficient sample, analysis could not be performed |
| M | Analyte was outside the specified recovery and/or RPD acceptance limits due to matrix interference. The associated blank spikes were within limits, therefore the sample data was reported without further clarification |
| Q1 | Analyte concentration in the sample exceeded the spike concentration, therefore the MS recovery and/or RPD limits do not apply |
| Q2 | Analyte results for R1 and/or R2 were lower than 10x the MDL, therefore the RPD limits do not apply |
| NH | Sample was heterogeneous and sample homogeneity could not be readily achieved using routine laboratory procedures, therefore the corresponding RPD was outside the specified acceptance limits. |

DATA REPORT



INSTITUTE FOR INTEGRATED RESEARCH IN MATERIALS, ENVIRONMENTS & SOCIETY

California State University, Long Beach, 1250 Bellflower Blvd., Long Beach, CA 90840 (562-985-2469)

General Chemistry

ANALYTICAL REPORT

| Analyte | Fraction | Result | MDL | RL | Units | Batch | Prepared | Analyzed | Method | QA Code |
|----------------------|-----------------|--------|------|------|-----------------|---------------------------|--------------|-----------|----------------------------|---------|
| 8284-R1 | B13-8382 | | | | Sediment | Sampled: 7/10/2013 | 11:04 | | Received: 08-Aug-13 | |
| Total Nitrogen | NA | ND | 0.01 | 0.02 | % Dry Weight | GC-02-018 | 8/13/2013 | 8/13/2013 | SM 5310 B | |
| Total Organic Carbon | NA | 1.21 | 0.01 | 0.02 | % Dry Weight | GC-02-018 | 8/13/2013 | 8/13/2013 | SM 5310 B | |
| 8285-R1 | B13-8374 | | | | Sediment | Sampled: 7/10/2013 | 14:28 | | Received: 08-Aug-13 | |
| Total Nitrogen | NA | ND | 0.01 | 0.02 | % Dry Weight | GC-02-018 | 8/13/2013 | 8/13/2013 | SM 5310 B | |
| Total Organic Carbon | NA | 1.18 | 0.01 | 0.02 | % Dry Weight | GC-02-018 | 8/13/2013 | 8/13/2013 | SM 5310 B | |
| 8286-R1 | B13-8371 | | | | Sediment | Sampled: 7/10/2013 | 12:03 | | Received: 08-Aug-13 | |
| Total Nitrogen | NA | ND | 0.01 | 0.02 | % Dry Weight | GC-02-018 | 8/13/2013 | 8/13/2013 | SM 5310 B | |
| Total Organic Carbon | NA | 0.89 | 0.01 | 0.02 | % Dry Weight | GC-02-018 | 8/13/2013 | 8/13/2013 | SM 5310 B | |
| 8287-R1 | B13-8363 | | | | Sediment | Sampled: 7/10/2013 | 13:38 | | Received: 08-Aug-13 | |
| Total Nitrogen | NA | ND | 0.01 | 0.02 | % Dry Weight | GC-02-018 | 8/13/2013 | 8/13/2013 | SM 5310 B | |
| Total Organic Carbon | NA | 0.89 | 0.01 | 0.02 | % Dry Weight | GC-02-018 | 8/13/2013 | 8/13/2013 | SM 5310 B | |
| 8288-R1 | B13-8360 | | | | Sediment | Sampled: 7/10/2013 | 15:30 | | Received: 08-Aug-13 | |
| Total Nitrogen | NA | ND | 0.01 | 0.02 | % Dry Weight | GC-02-018 | 8/13/2013 | 8/13/2013 | SM 5310 B | |
| Total Organic Carbon | NA | 0.82 | 0.01 | 0.02 | % Dry Weight | GC-02-018 | 8/13/2013 | 8/13/2013 | SM 5310 B | |
| 8289-R1 | B13-8349 | | | | Sediment | Sampled: 7/10/2013 | 9:51 | | Received: 08-Aug-13 | |
| Total Nitrogen | NA | ND | 0.01 | 0.02 | % Dry Weight | GC-02-018 | 8/13/2013 | 8/13/2013 | SM 5310 B | |
| Total Organic Carbon | NA | 1.49 | 0.01 | 0.02 | % Dry Weight | GC-02-018 | 8/13/2013 | 8/13/2013 | SM 5310 B | |
| 8290-R1 | B13-8326 | | | | Sediment | Sampled: 7/10/2013 | 8:28 | | Received: 08-Aug-13 | |
| Total Nitrogen | NA | ND | 0.01 | 0.02 | % Dry Weight | GC-02-018 | 8/13/2013 | 8/13/2013 | SM 5310 B | |

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INSTITUTE FOR INTEGRATED RESEARCH IN MATERIALS, ENVIRONMENTS & SOCIETY

California State University, Long Beach, 1250 Bellflower Blvd., Long Beach, CA 90840 (562-985-2469)

General Chemistry

ANALYTICAL REPORT

| Analyte | Fraction | Result | MDL | RL | Units | Batch | Prepared | Analyzed | Method | QA Code |
|----------------------|-----------------|--------|------|------|-----------------|---------------------------|--------------|-----------|----------------------------|---------|
| Total Organic Carbon | NA | 1.11 | 0.01 | 0.02 | % Dry Weight | GC-02-018 | 8/13/2013 | 8/13/2013 | SM 5310 B | |
| 8291-R1 | B13-8367 | | | | Sediment | Sampled: 7/11/2013 | 14:10 | | Received: 08-Aug-13 | |
| Total Nitrogen | NA | ND | 0.01 | 0.02 | % Dry Weight | GC-02-018 | 8/13/2013 | 8/13/2013 | SM 5310 B | |
| Total Organic Carbon | NA | 0.53 | 0.01 | 0.02 | % Dry Weight | GC-02-018 | 8/13/2013 | 8/13/2013 | SM 5310 B | |
| 8292-R1 | B13-8302 | | | | Sediment | Sampled: 7/11/2013 | 9:29 | | Received: 08-Aug-13 | |
| Total Nitrogen | NA | ND | 0.01 | 0.02 | % Dry Weight | GC-02-018 | 8/13/2013 | 8/13/2013 | SM 5310 B | |
| Total Organic Carbon | NA | 1.51 | 0.01 | 0.02 | % Dry Weight | GC-02-018 | 8/13/2013 | 8/13/2013 | SM 5310 B | |
| 8293-R1 | B13-8304 | | | | Sediment | Sampled: 7/11/2013 | 16:24 | | Received: 08-Aug-13 | |
| Total Nitrogen | NA | ND | 0.01 | 0.02 | % Dry Weight | GC-02-018 | 8/13/2013 | 8/13/2013 | SM 5310 B | |
| Total Organic Carbon | NA | 2.15 | 0.01 | 0.02 | % Dry Weight | GC-02-018 | 8/13/2013 | 8/13/2013 | SM 5310 B | |
| 8294-R1 | B13-8397 | | | | Sediment | Sampled: 7/12/2013 | 11:20 | | Received: 08-Aug-13 | |
| Total Nitrogen | NA | ND | 0.01 | 0.02 | % Dry Weight | GC-02-018 | 8/13/2013 | 8/13/2013 | SM 5310 B | |
| Total Organic Carbon | NA | 2.39 | 0.01 | 0.02 | % Dry Weight | GC-02-018 | 8/13/2013 | 8/13/2013 | SM 5310 B | |
| 8295-R1 | B13-8396 | | | | Sediment | Sampled: 7/12/2013 | 9:58 | | Received: 08-Aug-13 | |
| Total Nitrogen | NA | ND | 0.01 | 0.02 | % Dry Weight | GC-02-018 | 8/13/2013 | 8/13/2013 | SM 5310 B | |
| Total Organic Carbon | NA | 1.67 | 0.01 | 0.02 | % Dry Weight | GC-02-018 | 8/13/2013 | 8/13/2013 | SM 5310 B | |
| 8296-R1 | B13-8340 | | | | Sediment | Sampled: 7/12/2013 | 8:19 | | Received: 08-Aug-13 | |
| Total Nitrogen | NA | ND | 0.01 | 0.02 | % Dry Weight | GC-02-018 | 8/13/2013 | 8/13/2013 | SM 5310 B | |
| Total Organic Carbon | NA | 1.35 | 0.01 | 0.02 | % Dry Weight | GC-02-018 | 8/13/2013 | 8/13/2013 | SM 5310 B | |
| 8297-R1 | B13-8347 | | | | Sediment | Sampled: 7/12/2013 | 15:41 | | Received: 08-Aug-13 | |



INSTITUTE FOR INTEGRATED RESEARCH IN MATERIALS, ENVIRONMENTS & SOCIETY

California State University, Long Beach, 1250 Bellflower Blvd., Long Beach, CA 90840 (562-985-2469)

General Chemistry

ANALYTICAL REPORT

| Analyte | Fraction | Result | MDL | RL | Units | Batch | Prepared | Analyzed | Method | QA Code |
|----------------------|-----------------|--------|------|------|-----------------|---------------------------|--------------|-----------|----------------------------|---------|
| Total Nitrogen | NA | ND | 0.01 | 0.02 | % Dry Weight | GC-02-018 | 8/13/2013 | 8/13/2013 | SM 5310 B | |
| Total Organic Carbon | NA | 1.65 | 0.01 | 0.02 | % Dry Weight | GC-02-018 | 8/13/2013 | 8/13/2013 | SM 5310 B | |
| 8298-R1 | TMDL6-CP | | | | Sediment | Sampled: 7/12/2013 | 15:41 | | Received: 08-Aug-13 | |
| Total Organic Carbon | NA | 1.25 | 0.01 | 0.02 | % Dry Weight | GC-02-018 | 8/13/2013 | 8/13/2013 | SM 5310 B | |
| 8299-R1 | TMDL4-CS | | | | Sediment | Sampled: 7/12/2013 | 12:20 | | Received: 08-Aug-13 | |
| Total Organic Carbon | NA | 3.35 | 0.01 | 0.02 | % Dry Weight | GC-02-018 | 8/13/2013 | 8/13/2013 | SM 5310 B | |
| 8300-R1 | TMDL3-TB | | | | Sediment | Sampled: 7/12/2013 | 15:41 | | Received: 08-Aug-13 | |
| Total Organic Carbon | NA | 2.03 | 0.01 | 0.02 | % Dry Weight | GC-02-018 | 8/13/2013 | 8/13/2013 | SM 5310 B | |
| 8301-R1 | B13-8365 | | | | Sediment | Sampled: 7/13/2013 | 8:37 | | Received: 08-Aug-13 | |
| Total Nitrogen | NA | ND | 0.01 | 0.02 | % Dry Weight | GC-02-018 | 8/13/2013 | 8/13/2013 | SM 5310 B | |
| Total Organic Carbon | NA | 1.22 | 0.01 | 0.02 | % Dry Weight | GC-02-018 | 8/13/2013 | 8/13/2013 | SM 5310 B | |
| 8302-R1 | B13-8318 | | | | Sediment | Sampled: 7/13/2013 | 10:57 | | Received: 08-Aug-13 | |
| Total Nitrogen | NA | ND | 0.01 | 0.02 | % Dry Weight | GC-02-018 | 8/13/2013 | 8/13/2013 | SM 5310 B | |
| Total Organic Carbon | NA | 1.68 | 0.01 | 0.02 | % Dry Weight | GC-02-018 | 8/13/2013 | 8/13/2013 | SM 5310 B | |
| 8303-R1 | B13-8322 | | | | Sediment | Sampled: 7/13/2013 | 10:11 | | Received: 08-Aug-13 | |
| Total Nitrogen | NA | ND | 0.01 | 0.02 | % Dry Weight | GC-02-018 | 8/13/2013 | 8/13/2013 | SM 5310 B | |
| Total Organic Carbon | NA | 1.51 | 0.01 | 0.02 | % Dry Weight | GC-02-018 | 8/13/2013 | 8/13/2013 | SM 5310 B | |
| 8304-R1 | B13-8306 | | | | Sediment | Sampled: 7/11/2013 | 13:00 | | Received: 08-Aug-13 | |
| Total Nitrogen | NA | ND | 0.01 | 0.02 | % Dry Weight | GC-02-018 | 8/13/2013 | 8/13/2013 | SM 5310 B | |
| Total Organic Carbon | NA | 1.9 | 0.01 | 0.02 | % Dry Weight | GC-02-018 | 8/13/2013 | 8/13/2013 | SM 5310 B | |

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INSTITUTE FOR INTEGRATED RESEARCH IN MATERIALS, ENVIRONMENTS & SOCIETY

California State University, Long Beach, 1250 Bellflower Blvd., Long Beach, CA 90840 (562-985-2469)

General Chemistry

ANALYTICAL REPORT

| Analyte | Fraction | Result | MDL | RL | Units | Batch | Prepared | Analyzed | Method | QA Code |
|----------------------|-----------------|--------|------|------|-----------------|---------------------------|--------------|-----------|-----------|----------------------------|
| 8305-R1 | B13-8308 | | | | Sediment | Sampled: 7/11/2013 | 17:06 | | | Received: 08-Aug-13 |
| Total Nitrogen | NA | ND | 0.01 | 0.02 | % Dry Weight | GC-02-018 | 8/13/2013 | 8/13/2013 | SM 5310 B | |
| Total Organic Carbon | NA | 1.79 | 0.01 | 0.02 | % Dry Weight | GC-02-018 | 8/13/2013 | 8/13/2013 | SM 5310 B | |
| 8306-R1 | B13-8310 | | | | Sediment | Sampled: 7/11/2013 | 17:51 | | | Received: 08-Aug-13 |
| Total Nitrogen | NA | ND | 0.01 | 0.02 | % Dry Weight | GC-02-018 | 8/13/2013 | 8/13/2013 | SM 5310 B | |
| Total Organic Carbon | NA | 1.7 | 0.01 | 0.02 | % Dry Weight | GC-02-018 | 8/13/2013 | 8/13/2013 | SM 5310 B | |
| 8307-R1 | B13-8316 | | | | Sediment | Sampled: 7/11/2013 | 10:23 | | | Received: 08-Aug-13 |
| Total Nitrogen | NA | ND | 0.01 | 0.02 | % Dry Weight | GC-02-018 | 8/13/2013 | 8/13/2013 | SM 5310 B | |
| Total Organic Carbon | NA | 1.79 | 0.01 | 0.02 | % Dry Weight | GC-02-018 | 8/13/2013 | 8/13/2013 | SM 5310 B | |
| 8308-R1 | TMDL2-FH | | | | Sediment | Sampled: 7/11/2013 | 15:25 | | | Received: 08-Aug-13 |
| Total Organic Carbon | NA | 1.93 | 0.01 | 0.02 | % Dry Weight | GC-02-018 | 8/13/2013 | 8/13/2013 | SM 5310 B | |
| 8309-R1 | TMDL1-CH | | | | Sediment | Sampled: 7/11/2013 | 12:07 | | | Received: 08-Aug-13 |
| Total Organic Carbon | NA | 2.41 | 0.01 | 0.02 | % Dry Weight | GC-02-018 | 8/13/2013 | 8/13/2013 | SM 5310 B | |
| 8310-R1 | TMDL5-DT | | | | Sediment | Sampled: 7/11/2013 | 15:25 | | | Received: 08-Aug-13 |
| Total Organic Carbon | NA | 3.19 | 0.01 | 0.02 | % Dry Weight | GC-02-018 | 8/13/2013 | 8/13/2013 | SM 5310 B | |
| 8311-R1 | B13-8401 | | | | Sediment | Sampled: 7/12/2013 | 14:42 | | | Received: 08-Aug-13 |
| Total Nitrogen | NA | ND | 0.01 | 0.02 | % Dry Weight | GC-02-018 | 8/13/2013 | 8/13/2013 | SM 5310 B | |
| Total Organic Carbon | NA | 3.1 | 0.01 | 0.02 | % Dry Weight | GC-02-018 | 8/13/2013 | 8/13/2013 | SM 5310 B | |
| 8312-R1 | B13-8399 | | | | Sediment | Sampled: 7/12/2013 | 13:55 | | | Received: 08-Aug-13 |

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INSTITUTE FOR INTEGRATED RESEARCH IN MATERIALS, ENVIRONMENTS & SOCIETY

California State University, Long Beach, 1250 Bellflower Blvd., Long Beach, CA 90840 (562-985-2469)

General Chemistry

ANALYTICAL REPORT

| Analyte | Fraction | Result | MDL | RL | Units | Batch | Prepared | Analyzed | Method | QA Code |
|----------------------|-----------------|--------|------|------|-----------------|---------------------------|-------------|-----------|----------------------------|---------|
| Total Nitrogen | NA | ND | 0.01 | 0.02 | % Dry Weight | GC-02-018 | 8/13/2013 | 8/13/2013 | SM 5310 B | |
| Total Organic Carbon | NA | 1.72 | 0.01 | 0.02 | % Dry Weight | GC-02-018 | 8/13/2013 | 8/13/2013 | SM 5310 B | |
| 8313-R1 | B13-8384 | | | | Sediment | Sampled: 7/12/2013 | 9:13 | | Received: 08-Aug-13 | |
| Total Nitrogen | NA | ND | 0.01 | 0.02 | % Dry Weight | GC-02-018 | 8/13/2013 | 8/13/2013 | SM 5310 B | |
| Total Organic Carbon | NA | 2.21 | 0.01 | 0.02 | % Dry Weight | GC-02-018 | 8/13/2013 | 8/13/2013 | SM 5310 B | |
| 8314-R1 | B13-8333 | | | | Sediment | Sampled: 7/13/2013 | 7:43 | | Received: 08-Aug-13 | |
| Total Nitrogen | NA | ND | 0.01 | 0.02 | % Dry Weight | GC-02-018 | 8/13/2013 | 8/13/2013 | SM 5310 B | |
| Total Organic Carbon | NA | 1.7 | 0.01 | 0.02 | % Dry Weight | GC-02-018 | 8/13/2013 | 8/13/2013 | SM 5310 B | |
| 8315-R1 | B13-8356 | | | | Sediment | Sampled: 7/13/2013 | 9:22 | | Received: 08-Aug-13 | |
| Total Nitrogen | NA | ND | 0.01 | 0.02 | % Dry Weight | GC-02-018 | 8/13/2013 | 8/13/2013 | SM 5310 B | |
| Total Organic Carbon | NA | 1.32 | 0.01 | 0.02 | % Dry Weight | GC-02-018 | 8/13/2013 | 8/13/2013 | SM 5310 B | |

QUALITY CONTROL REPORT



INSTITUTE FOR INTEGRATED RESEARCH IN MATERIALS, ENVIRONMENTS & SOCIETY
 California State University, Long Beach, 1250 Bellflower Blvd., Long Beach, CA 90840 (562-985-2469)

General Chemistry

QUALITY CONTROL REPORT

| Analyte | Batch ID | Result | MDL | RL | Units | Spike Level | Source Result | % Recovery | Acceptance Limits | Limit Pass/Fail | RPD | RPD LIMIT | Limit Pass/Fail | QA Code |
|-----------------------------|--------------------|-----------------------|------|------|--------------|-------------|---------------|------------|-------------------|-----------------|-----|-----------|-----------------|---------|
| Fraction: NA | | QAQC Lab Blank | | | | | | | | | | | | |
| Lab Blank | 8282-B1 | DI Water | | | | | | | | | | | | |
| Total Nitrogen | GC-02-018 | ND | 0.01 | 0.02 | % Dry Weight | 0 | | | | | | | | |
| Prepared: 13-Aug-13 | | | | | | | | | | | | | | |
| Analyzed: 13-Aug-13 | | | | | | | | | | | | | | |
| Total Organic Carbon | GC-02-018 | ND | 0.01 | 0.02 | % Dry Weight | 0 | | | | | | | | |
| Prepared: 13-Aug-13 | | | | | | | | | | | | | | |
| Analyzed: 13-Aug-13 | | | | | | | | | | | | | | |
| Fraction: NA | | QAQC SRM 1944 | | | | | | | | | | | | |
| CRM | 8283-CRM1 | Sediment | | | | | | | | | | | | |
| Total Organic Carbon | GC-02-018 | 4.52 | 0.01 | 0.02 | % Dry Weight | 4.4 | | 103 | 3.3 - 5.5 | PASS | | | | |
| Prepared: 13-Aug-13 | | | | | | | | | | | | | | |
| Analyzed: 13-Aug-13 | | | | | | | | | | | | | | |
| Fraction: NA | | B13-8363 | | | | | | | | | | | | |
| Lab Dup | 8287-R2 | Sediment | | | | | | | | | | | | |
| Total Nitrogen | GC-02-018 | ND | 0.01 | 0.02 | % Dry Weight | 0 | | | | | 0 | | PASS | |
| Prepared: 13-Aug-13 | | | | | | | | | | | | | | |
| Analyzed: 13-Aug-13 | | | | | | | | | | | | | | |
| Total Organic Carbon | GC-02-018 | 1.11 | 0.01 | 0.02 | % Dry Weight | 0 | | | | | 22 | | PASS | |
| Prepared: 13-Aug-13 | | | | | | | | | | | | | | |
| Analyzed: 13-Aug-13 | | | | | | | | | | | | | | |
| Fraction: NA | | B13-8322 | | | | | | | | | | | | |
| Lab Dup | 8303-R2 | Sediment | | | | | | | | | | | | |
| 119-13-11 | 1307001-001 | | | | | | | | | | | | | |



INSTITUTE FOR INTEGRATED RESEARCH IN MATERIALS, ENVIRONMENTS & SOCIETY
California State University, Long Beach, 1250 Bellflower Blvd., Long Beach, CA 90840 (562-985-2469)

General Chemistry

QUALITY CONTROL REPORT

| Analyte | Batch ID | Result | MDL | RL | Units | Spike Level | Source Result | % Recovery | Acceptance Limits | Limit Pass/Fail | RPD | RPD LIMIT | Limit Pass/Fail | QA Code |
|---|-----------|--------|------|------|--------------|-------------|---------------|------------|-------------------|-----------------|-----|-----------|-----------------|---------|
| Total Nitrogen Prepared: 13-Aug-13 Analyzed: 13-Aug-13 | GC-02-018 | ND | 0.01 | 0.02 | % Dry Weight | 0 | | | | | 0 | | PASS | |
| Total Organic Carbon Prepared: 13-Aug-13 Analyzed: 13-Aug-13 | GC-02-018 | 1.61 | 0.01 | 0.02 | % Dry Weight | 0 | | | | | 6 | | PASS | |

CHAIN-OF-CUSTODY



Sample Receipt Form

Institute for Integrated Research in Materials, Environments, and Society (IIRMES)

Client: Physis Date Received: 8/8/13

Temperature: 50^{AL} °C

Wet Ice Blue Ice Dry Ice N/A

Custody seals present and intact? Yes No Not Applicable

| | | | | | |
|---------------------------------------|-----|-------------------------------------|----|--------------------------|--------|
| COC received with samples? | Yes | <input checked="" type="checkbox"/> | No | <input type="checkbox"/> | Notes: |
| COC signed and dated? | Yes | <input checked="" type="checkbox"/> | No | <input type="checkbox"/> | |
| Analyses requested on COC? | Yes | <input checked="" type="checkbox"/> | No | <input type="checkbox"/> | |
| Correct sample containers used? | Yes | <input checked="" type="checkbox"/> | No | <input type="checkbox"/> | |
| Container labels match COC? | Yes | <input checked="" type="checkbox"/> | No | <input type="checkbox"/> | |
| Adequate sample volumes received? | Yes | <input checked="" type="checkbox"/> | No | <input type="checkbox"/> | |
| Sample containers received intact? | Yes | <input checked="" type="checkbox"/> | No | <input type="checkbox"/> | |
| Number of Samples Received: <u>32</u> | | | | | |

Samples checked by: Ally Roy Date: 8/8/13

| | | | | | |
|---|--|---|--------------------------------------|-------------------------|---|
| COMPANY NAME Physis Environmental Laboratories, Inc. | | EMAIL sc@physislabs.com | PROJECT NAME / NUMBER 1307001-001 | | COC PAGE 1 of 4 |
| PROJECT MANAGER Misty Mercier | | FAX 714 602-5321 | PO # | PHYSIS SOS # 1307001 | TYPE OF ICE USED <input type="checkbox"/> WET <input type="checkbox"/> BLUE <input type="checkbox"/> DRY |
| COMPANY ADDRESS 1904 E. Wright Circle Anaheim, CA 92806 | | PHONE 714 602-5320 office 714 335-5918 cell | SAMPLED BY | | SHIPPED VIA <input type="checkbox"/> FEDEX <input type="checkbox"/> UPS <input type="checkbox"/> USPS <input type="checkbox"/> Client <input checked="" type="checkbox"/> Physis <input type="checkbox"/> other |

TURNAROUND TIME
 STANDARD RUSH business days

REPORT FORMAT
 PDF/EDD SWAMP EDD other

SPECIAL INSTRUCTIONS
please report down the MDL
Please report results in dry weight

REQUESTED ANALYSES

| PHYSIS MATRIX CODES | | | | | | | | | | | | | | | | | | | | |
|--|--------------------|---------|-------|--------------------|--------------|----------------------|----------------|--|--|--|--|--|--|--|--|--|--|--|--|--|
| SW = seawater FW = freshwater RW = rainwater WW = wastewater DW = drinking water S = sediment T = tissue E = extract O = other (specify) | | | | | | | | | | | | | | | | | | | | |
| SAMPLE ID | SAMPLE DESCRIPTION | SAMPLE | | physis matrix code | # of bottles | | | | | | | | | | | | | | | |
| | | date | time | | | Total Organic Carbon | Total Nitrogen | | | | | | | | | | | | | |
| 1 | B13-8382 | 7/10/13 | 11:04 | S | 1 | X | X | | | | | | | | | | | | | |
| 2 | B13-8374 | 7/10/13 | 14:28 | S | 1 | X | X | | | | | | | | | | | | | |
| 3 | B13-8371 | 7/10/13 | 12:03 | S | 1 | X | X | | | | | | | | | | | | | |
| 4 | B13-8363 | 7/10/13 | 13:38 | S | 1 | X | X | | | | | | | | | | | | | |
| 5 | B13-8360 | 7/10/13 | 15:30 | S | 1 | X | X | | | | | | | | | | | | | |
| 6 | B13-8349 | 7/10/13 | 9:51 | S | 1 | X | X | | | | | | | | | | | | | |
| 7 | B13-8326 | 7/10/13 | 8:28 | S | 1 | X | X | | | | | | | | | | | | | |
| 8 | B13-8367 | 7/11/13 | 14:10 | S | 1 | X | X | | | | | | | | | | | | | |
| 9 | B13-8302 | 7/11/13 | 9:29 | S | 1 | X | X | | | | | | | | | | | | | |
| 10 | B13-8304 | 7/11/13 | 16:24 | S | 1 | X | X | | | | | | | | | | | | | |

| | | | | | | | |
|-------------|-----------|---------|-------------|-----------|-----------|---------|-------------|
| print | signature | company | date & time | print | signature | company | date & time |
| Rich Hanken | | PHYSIS | 8/8/13 | Alex Long | | IIRMES | 8/8/13 |

| COMPANY NAME Physis Environmental Laboratories, Inc. | | EMAIL sc@physislabs.com | | PROJECT NAME / NUMBER 1008001-004 | | | | COC PAGE 2 of 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| PROJECT MANAGER Misty Mercier | | FAX 714 602-5321 | | PO # | | PHYSIS SOS # 1008001 | | TYPE OF ICE USED <input type="checkbox"/> WET <input type="checkbox"/> BLUE <input type="checkbox"/> DRY | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| COMPANY ADDRESS 1904 E. Wright Circle Anaheim, CA 92806 | | PHONE 714 602-5320 office 714 335-5918 cell | | SAMPLED BY | | | | SHIPPED VIA <input type="checkbox"/> FEDEX <input type="checkbox"/> UPS <input type="checkbox"/> USPS <input type="checkbox"/> Client <input checked="" type="checkbox"/> Physis <input type="checkbox"/> other | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TURNAROUND TIME <input checked="" type="checkbox"/> STANDARD <input type="checkbox"/> RUSH business days | | | | | | <h2 style="text-align: center;">REQUESTED ANALYSES</h2> <table border="1"><thead><tr><th></th><th>Total Organic Carbon</th><th>Total Nitrogen</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></tr></thead><tbody><tr><td>1</td><td>X</td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>2</td><td>X</td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>3</td><td>X</td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>4</td><td>X</td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>5</td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>6</td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>7</td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>8</td><td>X</td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>9</td><td>X</td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>10</td><td>X</td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></tbody></table> | | | | | | | | | Total Organic Carbon | Total Nitrogen | | | | | | | | | | | | | | | | | | | | | | 1 | X | X | | | | | | | | | | | | | | | | | | | | | | 2 | X | X | | | | | | | | | | | | | | | | | | | | | | 3 | X | X | | | | | | | | | | | | | | | | | | | | | | 4 | X | X | | | | | | | | | | | | | | | | | | | | | | 5 | X | | | | | | | | | | | | | | | | | | | | | | | 6 | X | | | | | | | | | | | | | | | | | | | | | | | 7 | X | | | | | | | | | | | | | | | | | | | | | | | 8 | X | X | | | | | | | | | | | | | | | | | | | | | | 9 | X | X | | | | | | | | | | | | | | | | | | | | | | 10 | X | X | | | | | | | | | | | | | | | | | | | | | |
| | Total Organic Carbon | Total Nitrogen | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 3 | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| REPORT FORMAT <input checked="" type="checkbox"/> PDF/EDD <input type="checkbox"/> SWAMP EDD <input type="checkbox"/> other | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SPECIAL INSTRUCTIONS please report down the MDL Please report results in dry weight | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PHYSIS MATRIX CODES SW = seawater FW = freshwater RW = rainwater WW = wastewater DW = drinking water S = sediment L = leachate E = extract O = other (specify) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SAMPLE ID | | SAMPLE DESCRIPTION | | SAMPLE date time | | physis matrix code | # of bottles | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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|---|--|---|--------------------------------------|-------------------------|--|
| COMPANY NAME Physis Environmental Laboratories, Inc. | | EMAIL sc@physislabs.com | PROJECT NAME / NUMBER 1008001-004 | | COC PAGE 3 of 4 |
| PROJECT MANAGER Misty Mercier | | FAX 714 602-5321 | PO # | PHYSIS SOS # 1008001 | TYPE OF ICE USED <input type="checkbox"/> WET <input type="checkbox"/> BLUE <input type="checkbox"/> DRY |
| COMPANY ADDRESS 1904 E. Wright Circle Anaheim, CA 92806 | | PHONE 714 602-5320 office 714 335-5918 cell | SAMPLED BY | | SHIPPED V. <input type="checkbox"/> FEDEX <input type="checkbox"/> UPS <input type="checkbox"/> USPS <input type="checkbox"/> Client <input checked="" type="checkbox"/> Physis <input type="checkbox"/> other |

TURNAROUND TIME
 STANDARD RUSH business days
 REPORT FORMAT
 PDF/EDD SWAMP EDD other

REQUESTED ANALYSES

SPECIAL INSTRUCTIONS
 please report down the MDL
 Please report results in dry weight

PHYSIS MATRIX CODES
 SW = seawater FW = freshwater RW = rainwater
 WW = wastewater DW = drinking water
 S = sediment T = tissue E = extract O = other (specify)

| SAMPLE ID | SAMPLE DESCRIPTION | SAMPLE | | physis matrix code | # of bottles | ANALYSES | | | | | | | | | | | | | | | | |
|-----------|--------------------|---------|-------|--------------------|--------------|----------------------|----------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| | | date | time | | | Total Organic Carbon | Total Nitrogen | | | | | | | | | | | | | | | |
| 1 | B13-8306 | 7/11/13 | 13:00 | S | 1 | X | X | | | | | | | | | | | | | | | |
| 2 | B13-8308 | 7/11/13 | 17:06 | S | 1 | X | X | | | | | | | | | | | | | | | |
| 3 | B13-8310 | 7/11/13 | 17:51 | S | 1 | X | X | | | | | | | | | | | | | | | |
| 4 | B13-8316 | 7/11/13 | 10:23 | S | 1 | X | X | | | | | | | | | | | | | | | |
| 5 | TMDL2-FH | 7/11/13 | 15:25 | S | 1 | X | | | | | | | | | | | | | | | | |
| 6 | TMDL1-CH | 7/11/13 | 12:07 | S | 1 | X | | | | | | | | | | | | | | | | |
| 7 | TMDL5-DT | 7/11/13 | 15:25 | S | 1 | X | | | | | | | | | | | | | | | | |
| 8 | B13-8401 | 7/12/13 | 14:42 | S | 1 | X | X | | | | | | | | | | | | | | | |
| 9 | B13-8399 | 7/12/13 | 13:55 | S | 1 | X | X | | | | | | | | | | | | | | | |
| 10 | B13-8384 | 7/12/13 | 9:13 | S | 1 | X | X | | | | | | | | | | | | | | | |

| | | | | | | | |
|-------------|--------------------|---------|-------------|-----------|--------------------|---------|-------------|
| print | signature | company | date & time | print | signature | company | date & time |
| Rich Hanken | <i>[Signature]</i> | PHYSIS | 9/18/13 | Alex Long | <i>[Signature]</i> | IIRMES | 8/8/13 |

| | | | | | | | | | |
|---|--|---|--|---|--------------------------------|---|---|--|--|
| COMPANY NAME Physis Environmental Laboratories, Inc. | | EMAIL sc@physislabs.com | | PROJECT NAME / NUMBER 1008001-004 | | | COC PAGE 4 of 4 | | |
| PROJECT MANAGER Misty Mercier | | FAX 714 602-5321 | | PO # | PHYSIS SOS # 1008001 | TYPE OF ICE USED <input type="checkbox"/> WET <input type="checkbox"/> BLUE <input type="checkbox"/> DRY | | | |
| COMPANY ADDRESS 1904 E. Wright Circle Anaheim, CA 92806 | | PHONE 714 602-5320 office 714 335-5918 cell | | SAMPLED BY | | | SHIPPED VIA <input type="checkbox"/> FEDEX <input type="checkbox"/> UPS <input type="checkbox"/> USPS <input type="checkbox"/> Client <input checked="" type="checkbox"/> Physis <input type="checkbox"/> other | | |

TURNAROUND TIME
 STANDARD RUSH business days

REPORT FORMAT
 PDF/EDD SWAMP EDD other

SPECIAL INSTRUCTIONS
 please report down the MDL
 Please report results in dry weight

REQUESTED ANALYSES

| PHYSIS MATRIX CODES | | | | | | | Total Organic Carbon | Total Nitrogen | | | | | | | | | | | | | | | | |
|---------------------|--------------------|-------------|-------------|--------------------|--------------|---|----------------------|----------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| SAMPLE ID | SAMPLE DESCRIPTION | SAMPLE date | SAMPLE time | physis matrix code | # of bottles | | | | | | | | | | | | | | | | | | | |
| 1 | B13-8333 | 7/13/13 | 7:43 | S | 1 | X | X | | | | | | | | | | | | | | | | | |
| 2 | B13-8356 | 7/13/13 | 9:22 | S | 1 | X | X | | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | | | | |

| print | signature | company | date & time | print | signature | company | date & time |
|-------------|-----------|---------|-------------|-----------|-----------|---------|-------------|
| Rich Hanken | | PHYSIS | 8/6/13 | Alex Long | | IIRMES | 8/8/13 |
| | | | | | | | |

SUBCONTRACT

REPORT

TERRA ENVIRONMENTAL LABORATORIES, INC. AUSTIN

Innovative Solutions for Nature

PHYSIS

**CHAIN OF
CUSTODY**

TERRA ENVIRONMENTAL LABORATORIES, INC. AURA

Innovative Solutions for Nature

1307001-001

Analysis Request and Chain of Custody

POLA/POLB

Harbor Toxics TMDL and Bight '13

From:

AMEC Environment & Infrastructure
Attn: Chris Stransky
9210 Sky Park Court, Suite 200
San Diego, CA 92123
Phone: 858-300-4350 Fax: 858-300-4301

To:

Physis Environmental Laboratories, Inc.
Attn: Misty Mercier
1904 East Wright Circle
Anaheim, California 92806
Phone: 714-602-5320 Fax: 714-602-5321

| SampleID | Date | Time | Analyses | Sample Type | Bottle Size | Preservative | Bottle Count |
|----------|---------|------|--|-------------|-------------|--------------|--------------|
| B13-8382 | 7/10/13 | 1104 | General Chemistry | Grab | 8 oz Glass | None | 1 |
| B13-8382 | 7/10/13 | 1104 | Metals | Grab | 8 oz Glass | None | 1 |
| B13-8382 | 7/10/13 | 1104 | PBDE | Grab | 8 oz Glass | None | 1 |
| B13-8382 | 7/10/13 | 1104 | PCBs, PAHs, and Chlorinated Hydrocarbons | Grab | 8 oz Glass | None | 1 |
| B13-8382 | 7/10/13 | 1104 | Pyrethroid Pesticides | Grab | 8 oz Glass | None | 1 |

Comments: See attachment for detailed analytical list.

Sampler's Initials: JS

Relinquished By: [Signature] Date/Time: 7/13/13 1300

Received By: [Signature] Date/Time: 7/13/13 1300

Relinquished By: _____ Date/Time: _____

Received By: _____ Date/Time: _____

Analysis Request and Chain of Custody

POLAPOLB

Harbor Toxics TMDL and Bight '13

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To:

Physis Environmental Laboratories, Inc.
 Attn: Misty Mercier
 1904 East Wright Circle
 Anaheim, California 92806
 Phone: 714-602-5320 Fax: 714-602-5321

| SampleID | Date | Time | Analyses | Sample Type | Bottle Size | Preservative | Bottle Count |
|----------|---------|------|--|-------------|-------------|--------------|--------------|
| B13-8374 | 7/10/13 | 1428 | General Chemistry | Grab | 8 oz Glass | None | 1 |
| B13-8374 | 7/10/13 | 1428 | Metals | Grab | 8 oz Glass | None | 1 |
| B13-8374 | 7/10/13 | 1428 | PBDE | Grab | 8 oz Glass | None | 1 |
| B13-8374 | 7/10/13 | 1428 | PCBs, PAHs, and Chlorinated Hydrocarbons | Grab | 8 oz Glass | None | 1 |
| B13-8374 | 7/10/13 | 1428 | Pyrethroid Pesticides | Grab | 8 oz Glass | None | 1 |

Comments: See attachment for detailed analytical list.

Sampler's Initials: JB

Relinquished By: [Signature]

Date/Time: 7/13/13 1300

Received By: [Signature]

Date/Time: 7/13/13 1300

Relinquished By: _____

Date/Time: _____

Received By: _____

Date/Time: _____

Analysis Request and Chain of Custody

POLA/POLB

Harbor Toxics TMDL and Bight '13

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1904 East Wright Circle
Anaheim, California 92806
Phone: 714-602-5320 Fax: 714-602-5321

| SampleID | Date | Time | Analyses | Sample Type | Bottle Size | Preservative | Bottle Count |
|----------|---------|------|--|-------------|-------------|--------------|--------------|
| B13-8371 | 7/10/13 | 1203 | General Chemistry | Grab | 8 oz Glass | None | 1 |
| B13-8371 | 7/10/13 | 1203 | Metals | Grab | 8 oz Glass | None | 1 |
| B13-8371 | 7/10/13 | 1203 | PBDE | Grab | 8 oz Glass | None | 1 |
| B13-8371 | 7/10/13 | 1203 | PCBs, PAHs, and Chlorinated Hydrocarbons | Grab | 8 oz Glass | None | 1 |
| B13-8371 | 7/10/13 | 1203 | Pyrethroid Pesticides | Grab | 8 oz Glass | None | 1 |

Comments: See attachment for detailed analytical list.

Sampler's Initials: JS

Relinquished By: [Signature]

Date/Time: 7/13/13 1300

Received By: [Signature]

Date/Time: 7/13/13 1300

Relinquished By: _____

Date/Time: _____

Received By: _____

Date/Time: _____

Analysis Request and Chain of Custody

POLA/POLB

Harbor Toxics TMDL and Bight '13

From:

AMEC Environment & Infrastructure
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San Diego, CA 92123
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To:

Physis Environmental Laboratories, Inc.
Attn: Misty Mercier
1904 East Wright Circle
Anaheim, California 92806
Phone: 714-602-5320 Fax: 714-602-5321

| SampleID | Date | Time | Analyses | Sample Type | Bottle Size | Preservative | Bottle Count |
|----------|---------|------|--|-------------|-------------|--------------|--------------|
| B13-8363 | 7/10/13 | 1338 | General Chemistry | Grab | 8 oz Glass | None | 1 |
| B13-8363 | 7/10/13 | 1338 | Metals | Grab | 8 oz Glass | None | 1 |
| B13-8363 | 7/10/13 | 1338 | PBDE | Grab | 8 oz Glass | None | 1 |
| B13-8363 | 7/10/13 | 1338 | PCBs, PAHs, and Chlorinated Hydrocarbons | Grab | 8 oz Glass | None | 1 |
| B13-8363 | 7/10/13 | 1338 | Pyrethroid Pesticides | Grab | 8 oz Glass | None | 1 |

Comments: See attachment for detailed analytical list.

Sampler's Initials: JS

Relinquished By: [Signature]

Date/Time: 7/13/13 1300

Received By: [Signature]

Date/Time: 7/13/13 1300

Relinquished By: _____

Date/Time: _____

Received By: _____

Date/Time: _____

Analysis Request and Chain of Custody

POLA/POLB

Harbor Toxics TMDL and Bight '13

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AMEC Environment & Infrastructure
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To:

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Attn: Misty Mercier
1904 East Wright Circle
Anaheim, California 92806
Phone: 714-602-5320 Fax: 714-602-5321

| SampleID | Date | Time | Analyses | Sample Type | Bottle Size | Preservative | Bottle Count |
|----------|---------|-------------------------|--|-------------|-------------|--------------|--------------|
| B13-8360 | 7/10/13 | 1530 | General Chemistry | Grab | 8 oz Glass | None | 1 |
| B13-8360 | 7/10/13 | 1530 | Metals | Grab | 8 oz Glass | None | 1 |
| B13-8360 | 7/10/13 | 1530 | PBDE | Grab | 8 oz Glass | None | 1 |
| B13-8360 | 7/10/13 | 1530 1500 | PCBs, PAHs, and Chlorinated Hydrocarbons | Grab | 8 oz Glass | None | 1 |
| B13-8360 | 7/10/13 | 1530 | Pyrethroid Pesticides | Grab | 8 oz Glass | None | 1 |

Comments: See attachment for detailed analytical list.

Sampler's Initials: IR

Relinquished By: [Signature]

Date/Time: 7/13/13 1500

Received By: [Signature]

Date/Time: 7/12/13 1300

Relinquished By: _____

Date/Time: _____

Received By: _____

Date/Time: _____

Analysis Request and Chain of Custody

POLA/POLB

Harbor Toxics TMDL and Bight '13

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To:

Physis Environmental Laboratories, Inc.
Attn: Misty Mercier
1904 East Wright Circle
Anaheim, California 92806
Phone: 714-602-5320 Fax: 714-602-5321

| SampleID | Date | Time | Analyses | Sample Type | Bottle Size | Preservative | Bottle Count |
|----------|---------|------|--|-------------|-------------|--------------|--------------|
| B13-8349 | 7/10/13 | 0951 | General Chemistry | Grab | 8 oz Glass | None | 1 |
| B13-8349 | 7/10/13 | 0951 | Metals | Grab | 8 oz Glass | None | 1 |
| B13-8349 | 7/10/13 | 0951 | PBDE | Grab | 8 oz Glass | None | 1 |
| B13-8349 | 7/10/13 | 0951 | PCBs, PAHs, and Chlorinated Hydrocarbons | Grab | 8 oz Glass | None | 1 |
| B13-8349 | 7/10/13 | 0951 | Pyrethroid Pesticides | Grab | 8 oz Glass | None | 1 |

Comments: See attachment for detailed analytical list.

Sampler's Initials: JS

Relinquished By: [Signature]

Date/Time: 7/13/13 1300

Received By: [Signature]

Date/Time: 7/13/13 1200

Relinquished By: _____

Date/Time: _____

Received By: _____

Date/Time: _____

Analysis Request and Chain of Custody

POLA/POLB

Harbor Toxics TMDL and Bight '13

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To:

Physis Environmental Laboratories, Inc.
Attn: Misty Mercier
1904 East Wright Circle
Anaheim, California 92806
Phone: 714-602-5320 Fax: 714-602-5321

| SampleID | Date | Time | Analyses | Sample Type | Bottle Size | Preservative | Bottle Count |
|----------|---------|------|--|-------------|-------------|--------------|--------------|
| B13-8326 | 7/10/13 | 0828 | General Chemistry | Grab | 8 oz Glass | None | 1 |
| B13-8326 | 7/10/13 | 0828 | Metals | Grab | 8 oz Glass | None | 1 |
| B13-8326 | 7/10/13 | 0828 | PBDE | Grab | 8 oz Glass | None | 1 |
| B13-8326 | 7/10/13 | 0828 | PCBs, PAHs, and Chlorinated Hydrocarbons | Grab | 8 oz Glass | None | 1 |
| B13-8326 | 7/10/13 | 0828 | Pyrethroid Pesticides | Grab | 8 oz Glass | None | 1 |

Comments: See attachment for detailed analytical list.

Sampler's Initials: JS

Relinquished By: [Signature]

Date/Time: 7/13/13 1300

Received By: [Signature]

Date/Time: 7/13/13 1300

Relinquished By: _____

Date/Time: _____

Received By: _____

Date/Time: _____

Analysis Request and Chain of Custody

POLA/POLB

Harbor Toxics TMDL and Bight #13

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Phone: 714-602-5320 Fax: 714-602-5321

| SampleID | Date | Time | Analyses | Sample Type | Bottle Size | Preservative | Bottle Count |
|----------|---------|------|--|-------------|-------------|--------------|--------------|
| B13-8367 | 7/4/13 | 1410 | General Chemistry | Grab | 8 oz Glass | None | 1 |
| B13-8367 | 7/10/13 | 1410 | Metals | Grab | 8 oz Glass | None | 1 |
| B13-8367 | 7/11/13 | 1410 | PBOE | Grab | 8 oz Glass | None | 1 |
| B13-8367 | 7/11/13 | 1410 | PCBs, PAHs, and Chlorinated Hydrocarbons | Grab | 8 oz Glass | None | 1 |
| B13-8367 | 7/11/13 | 1410 | Pyrethroid Pesticides | Grab | 8 oz Glass | None | 1 |

Comments: See attachment for detailed analytical list.

Sampler's Initials: JS

Relinquished By: [Signature]

Date/Time: 7/12/13 000

Received By: [Signature]

Date/Time: 7/12/13 1200

Relinquished By: _____

Date/Time: _____

Received By: _____

Date/Time: _____

1307001-001

Analysis Request and Chain of Custody

POLA/POLB

Harbor Toxics TMDL and Bight '13

From:

AMEC Environment & Infrastructure
Attn: Chris Stransky
9210 Sky Park Court, Suite 200
San Diego, CA 92123
Phone: 858-300-4350 Fax: 858-300-4301

To:

Physis Environmental Laboratories, Inc.
Attn: Misty Mercier
1904 East Wright Circle
Anaheim, California 92806
Phone: 714-602-5320 Fax: 714-602-5321

| SampleID | Date | Time | Analyses | Sample Type | Bottle Size | Preservative | Bottle Count |
|----------|---------|------|--|-------------|-------------|--------------|--------------|
| B13-8302 | 7/11/13 | 0929 | General Chemistry | Grab | 8 oz Glass | None | 1 |
| B13-8302 | 7/11/13 | 0929 | Metals | Grab | 8 oz Glass | None | 1 |
| B13-8302 | 7/11/13 | 0929 | PBDE | Grab | 8 oz Glass | None | 1 |
| B13-8302 | 7/11/13 | 0929 | PCBs, PAHs, and Chlorinated Hydrocarbons | Grab | 8 oz Glass | None | 1 |
| B13-8302 | 7/11/13 | 0929 | Pyrethroid Pesticides | Grab | 8 oz Glass | None | 1 |

Comments: See attachment for detailed analytical list.

Sampler's Initials: JS

Relinquished By: [Signature] Date/Time: 7/13/13 12:10 Received By: [Signature] Date/Time: 7/13/13 13:00

Relinquished By: _____ Date/Time: _____ Received By: _____ Date/Time: _____

Analysis Request and Chain of Custody

POLA/POLB

Harbor Toxics TMDL and Bight '13

From:

AMEC Environment & Infrastructure
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To:

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Anaheim, California 92806
Phone: 714-602-5320 Fax: 714-602-5321

| SampleID | Date | Time | Analyses | Sample Type | Bottle Size | Preservative | Bottle Count |
|----------|---------|------|--|-------------|-------------|--------------|--------------|
| B13-8304 | 7/11/13 | 1624 | General Chemistry | Grab | 8 oz Glass | None | 1 |
| B13-8304 | 7/11/13 | 1624 | Metals | Grab | 8 oz Glass | None | 1 |
| B13-8304 | 7/11/13 | 1624 | PBDE | Grab | 8 oz Glass | None | 1 |
| B13-8304 | 7/11/13 | 1624 | PCBs, PAHs, and Chlorinated Hydrocarbons | Grab | 8 oz Glass | None | 1 |
| B13-8304 | 7/11/13 | 1624 | Pyrethroid Pesticides | Grab | 8 oz Glass | None | 1 |

Comments: See attachment for detailed analytical list.

Sampler's Initials: JS

Relinquished By: [Signature]

Date/Time: 7/13/13 1300

Received By: [Signature]

Date/Time: 7/13/13 1300

Relinquished By: _____

Date/Time: _____

Received By: _____

Date/Time: _____

Analysis Request and Chain of Custody

POLA/POLB

Harbor Toxics TMDL and Bight '13

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AMEC Environment & Infrastructure
Attn: Chris Stransky
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Physis Environmental Laboratories, Inc.
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1904 East Wright Circle
Anaheim, California 92806
Phone: 714-602-5320 Fax: 714-602-5321

| SampleID | Date | Time | Analyses | Sample Type | Bottle Size | Preservative | Bottle Count |
|----------|---------|------|--|-------------|-------------|--------------|--------------|
| B13-8306 | 7/11/13 | 1300 | General Chemistry | Grab | 8 oz Glass | None | 1 |
| B13-8306 | 7/11/13 | 1300 | Metals | Grab | 8 oz Glass | None | 1 |
| B13-8306 | 7/11/13 | 1300 | PBDE | Grab | 8 oz Glass | None | 1 |
| B13-8306 | 7/11/13 | 1300 | PCBs, PAHs, and Chlorinated Hydrocarbons | Grab | 8 oz Glass | None | 1 |
| B13-8306 | 7/11/13 | 1300 | Pyrethroid Pesticides | Grab | 8 oz Glass | None | 1 |

Comments: See attachment for detailed analytical list.

Sampler's Initials: JR

Relinquished By: 

Date/Time: 7/17/13 1300

Received By: 

Date/Time: 7/13/13 1300

Relinquished By: _____

Date/Time: _____

Received By: _____

Date/Time: _____

Analysis Request and Chain of Custody

POLA/POLB

Harbor Toxics TMDL and Bight '13

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Phone: 714-602-5320 Fax: 714-602-5321

| SampleID | Date | Time | Analyses | Sample Type | Bottle Size | Preservative | Bottle Count |
|----------|---------|------|--|-------------|-------------|--------------|--------------|
| B13-8308 | 7/11/13 | 1706 | General Chemistry | Grab | 8 oz Glass | None | 1 |
| B13-8308 | 7/11/13 | 1706 | Metals | Grab | 8 oz Glass | None | 1 |
| B13-8308 | 7/11/13 | 1706 | PBDE | Grab | 8 oz Glass | None | 1 |
| B13-8308 | 7/11/13 | 1706 | PCBs, PAHs, and Chlorinated Hydrocarbons | Grab | 8 oz Glass | None | 1 |
| B13-8308 | 7/11/13 | 1706 | Pyrethroid Pesticides | Grab | 8 oz Glass | None | 1 |

Comments: See attachment for detailed analytical list.

Sampler's Initials: JS

Relinquished By: [Signature]

Date/Time: 7/13/13 1300

Received By: [Signature]

Date/Time: 7/13/13 1300

Relinquished By: _____

Date/Time: _____

Received By: _____

Date/Time: _____

Analysis Request and Chain of Custody

POLA/POLB

Harbor Toxics TMDL and Bight '13

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Phone: 714-602-5320 Fax: 714-602-5321

| SampleID | Date | Time | Analyses | Sample Type | Bottle Size | Preservative | Bottle Count |
|----------|---------|------|--|-------------|-------------|--------------|--------------|
| B13-8310 | 7/11/13 | 1751 | General Chemistry | Grab | 8 oz Glass | None | 1 |
| B13-8310 | 7/11/13 | 1751 | Metals | Grab | 8 oz Glass | None | 1 |
| B13-8310 | 7/11/13 | 1751 | PBDE | Grab | 8 oz Glass | None | 1 |
| B13-8310 | 7/11/13 | 1751 | PCBs, PAHs, and Chlorinated Hydrocarbons | Grab | 8 oz Glass | None | 1 |
| B13-8310 | 7/11/13 | 1751 | Pyrethroid Pesticides | Grab | 8 oz Glass | None | 1 |

Comments: See attachment for detailed analytical list.

Sampler's Initials: JS

Relinquished By: [Signature]

Date/Time: 7/10/13 1300

Received By: [Signature]

Date/Time: 7/13/13 1200

Relinquished By: _____

Date/Time: _____

Received By: _____

Date/Time: _____

Analysis Request and Chain of Custody

POLA/POLB

Harbor Toxics TMDL and Bight '13

From:

AMEC Environment & Infrastructure
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| SampleID | Date | Time | Analyses | Sample Type | Bottle Size | Preservative | Bottle Count |
|----------|---------|------|--|-------------|-------------|--------------|--------------|
| B13-8316 | 7/11/13 | 1023 | General Chemistry | Grab | 8 oz Glass | None | 1 |
| B13-8316 | 7/11/13 | 1023 | Metals | Grab | 8 oz Glass | None | 1 |
| B13-8316 | 7/11/13 | 1023 | PBDE | Grab | 8 oz Glass | None | 1 |
| B13-8316 | 7/11/13 | 1023 | PCBs, PAHs, and Chlorinated Hydrocarbons | Grab | 8 oz Glass | None | 1 |
| B13-8316 | 7/11/13 | 1023 | Pyrethroid Pesticides | Grab | 8 oz Glass | None | 1 |

Comments: See attachment for detailed analytical list.

Sampler's Initials: JS

Relinquished By: [Signature]

Date/Time: 7/13/13 1300

Received By: [Signature]

Date/Time: 7/13/13 1300

Relinquished By: _____

Date/Time: _____

Received By: _____

Date/Time: _____

Analysis Request and Chain of Custody

POLA/POLB

Harbor Toxics TMDL and Bight '13

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| SampleID | Date | Time | Analyses | Sample Type | Bottle Size | Preservative | Bottle Count |
|----------|---------|------|--|-------------|-------------|--------------|--------------|
| TMDL2-FH | 7/11/13 | 1525 | General Chemistry | Grab | 8 oz Glass | None | 1 |
| TMDL2-FH | 7/11/13 | 1525 | Metals | Grab | 8 oz Glass | None | 1 |
| TMDL2-FH | 7/11/13 | 1525 | PCBs, PAHs, and Chlorinated Hydrocarbons | Grab | 8 oz Glass | None | 1 |

Comments: See attachment for detailed analysis list. NOTE: Analytical requirements for these samples differs from the Bight '13 samples.

Sampler's Initials: JS

Relinquished By: [Signature]

Date/Time: 7/13/13 1300

Received By: [Signature]

Date/Time: 7/13/13 1300

Relinquished By: _____

Date/Time: _____

Received By: _____

Date/Time: _____

Analysis Request a. Chain of Custody

POLA/POLB

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 Attn: Chris Stransky
 9210 Sky Park Court, Suite 200
 San Diego, CA 92123
 Phone: (858) 300-4350 Fax: (858) 300-4301

To:

Physis Environmental Laboratories, Inc.
 Attn: Misty Mercier
 1904 East Wright Circle
 Anaheim, California 92806
 Phone: 714-602-5320 Fax: 714-602-5321

| SampleID | Date | Time | Analyses | Sample Type | Bottle Size | Preservative | Bottle Count |
|----------|----------------|-------------|--|-------------|-------------|--------------|--------------|
| TMDL1-CH | <u>7/11/13</u> | <u>1207</u> | General Chemistry | Grab | 8 oz Glass | None | <u>1</u> |
| TMDL1-CH | <u>7/11/13</u> | <u>1207</u> | Metals | Grab | 8 oz Glass | None | <u>1</u> |
| TMDL1-CH | <u>7/11/13</u> | <u>1207</u> | PCBs, PAHs, and Chlorinated Hydrocarbons | Grab | 8 oz Glass | None | <u>1</u> |

Comments: See attachment for detailed analysis list. NOTE: Analytical requirements for these samples differs from the Bight '13 samples.

Sampler's Initials: JS
 Relinquished By: [Signature] Date/Time: 7/13/13 1300 Received By: [Signature] Date/Time: 7/13/13 1300
 Relinquished By: _____ Date/Time: _____ Received By: _____ Date/Time: _____

Analysis Request and Chain of Custody

POLAPOLB

Harbor Toxics TMDL and Bight '13

From:

AMEC Environment & Infrastructure
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To:

Physis Environmental Laboratories, Inc.
Attn: Misty Mercier
1904 East Wright Circle
Anaheim, California 92806
Phone: 714-602-5320 Fax: 714-602-5321

| SampleID | Date | Time | Analyses | Sample Type | Bottle Size | Preservative | Bottle Count |
|----------|---------|------|--|-------------|-------------|--------------|--------------|
| TMDL5-DT | 7/11/13 | 1525 | General Chemistry | Grab | 8 oz Glass | None | 1 |
| TMDL5-DT | 7/11/13 | 1525 | Metals | Grab | 8 oz Glass | None | 1 |
| TMDL5-DT | 7/11/13 | 1525 | PCBs, PAHs, and Chlorinated Hydrocarbons | Grab | 8 oz Glass | None | 1 |

Comments: See attachment for detailed analysis list. NOTE: Analytical requirements for these samples differs from the Bight '13 samples.

Sampler's Initials: JS

Relinquished By: [Signature]

Date/Time: 7/13/13 1300

Received By: [Signature]

Date/Time: 7/12/13 1300

Relinquished By: _____

Date/Time: _____

Received By: _____

Date/Time: _____

Analysis Request and Chain of Custody

POLA/POLB

Harbor Toxics TMDL and Bight '13

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Anaheim, California 92806
Phone: 714-602-5320 Fax: 714-602-5321

| SampleID | Date | Time | Analyses | Sample Type | Bottle Size | Preservative | Bottle Count |
|----------|---------|------|--|-------------|-------------|--------------|--------------|
| B13-8401 | 7/12/13 | 1442 | General Chemistry | Grab | 8 oz Glass | None | 1 |
| B13-8401 | 7/12/13 | 1442 | Metals | Grab | 8 oz Glass | None | 1 |
| B13-8401 | 7/12/13 | 1442 | PBDE | Grab | 8 oz Glass | None | 1 |
| B13-8401 | 7/12/13 | 1442 | PCBs, PAHs, and Chlorinated Hydrocarbons | Grab | 8 oz Glass | None | 1 |
| B13-8401 | 7/12/13 | 1442 | Pyrethroid Pesticides | Grab | 8 oz Glass | None | 1 |

Comments: See attachment for detailed analytical list.

Sampler's Initials: JS

Relinquished By: [Signature]

Date/Time: 7/12/13 1300

Received By: [Signature]

Date/Time: 7/13/13 1300

Relinquished By: _____

Date/Time: _____

Received By: _____

Date/Time: _____

Analysis Request and Chain of Custody

POLA/POLB

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| SampleID | Date | Time | Analyses | Sample Type | Bottle Size | Preservative | Bottle Count |
|----------|---------|------|--|-------------|-------------|--------------|--------------|
| B13-8399 | 7/12/13 | 1355 | General Chemistry | Grab | 8 oz Glass | None | 1 |
| B13-8399 | 7/12/13 | 1355 | Metals | Grab | 8 oz Glass | None | 1 |
| B13-8399 | 7/12/13 | 1355 | PBDE | Grab | 8 oz Glass | None | 1 |
| B13-8399 | 7/12/13 | 1355 | PCBs, PAHs, and Chlorinated Hydrocarbons | Grab | 8 oz Glass | None | 1 |
| B13-8399 | 7/12/13 | 1355 | Pyrethroid Pesticides | Grab | 8 oz Glass | None | 1 |

Comments: See attachment for detailed analytical list.

Sampler's Initials: JK

Relinquished By: [Signature]

Date/Time: 7/10/13 1300

Received By: [Signature]

Date/Time: 7/13/13 1300

Relinquished By: _____

Date/Time: _____

Received By: _____

Date/Time: _____

Analysis Request and Chain of Custody

POLA/POLB

Harbor Toxics TMDL and Bight '13

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| SampleID | Date | Time | Analyses | Sample Type | Bottle Size | Preservative | Bottle Count |
|----------|---------|------|--|-------------|-------------|--------------|--------------|
| B13-8384 | 7/12/13 | 0913 | General Chemistry | Grab | 8 oz Glass | None | 1 |
| B13-8384 | 7/12/13 | 0913 | Metals | Grab | 8 oz Glass | None | 1 |
| B13-8384 | 7/12/13 | 0913 | PBDE | Grab | 8 oz Glass | None | 1 |
| B13-8384 | 7/12/13 | 0913 | PCBs, PAHs, and Chlorinated Hydrocarbons | Grab | 8 oz Glass | None | 1 |
| B13-8384 | 7/12/13 | 0913 | Pyrethroid Pesticides | Grab | 8 oz Glass | None | 1 |

Comments: See attachment for detailed analytical list.

Sampler's Initials: JS

Relinquished By: [Signature]

Date/Time: 7/12/13 1300

Received By: [Signature]

Date/Time: 7/12/13 1300

Relinquished By: _____

Date/Time: _____

Received By: _____

Date/Time: _____

Analysis Request and Chain of Custody

POLA/POLB

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 Phone: 714-602-5320 Fax: 714-602-5321

| SampleID | Date | Time | Analyses | Sample Type | Bottle Size | Preservative | Bottle Count |
|----------|---------|------|--|-------------|-------------|--------------|--------------|
| B13-8397 | 7/12/13 | 1120 | General Chemistry | Grab | 8 oz Glass | None | 1 |
| B13-8397 | 7/12/13 | 1120 | Metals | Grab | 8 oz Glass | None | 1 |
| B13-8397 | 7/12/13 | 1120 | PBDE | Grab | 8 oz Glass | None | 1 |
| B13-8397 | 7/12/13 | 1120 | PCBs, PAHs, and Chlorinated Hydrocarbons | Grab | 8 oz Glass | None | 1 |
| B13-8397 | 7/12/13 | 1120 | Pyrethroid Pesticides | Grab | 8 oz Glass | None | 1 |

Comments: See attachment for detailed analytical list.

Sampler's Initials: JS
 Relinquished By: [Signature] Date/Time: 7/13/13 1300 Received By: [Signature] Date/Time: 7/13/13 1300
 Relinquished By: _____ Date/Time: _____ Received By: _____ Date/Time: _____

Analysis Request and Chain of Custody

POLA/POLB

Harbor Toxics TMDL and Bight '13

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| SampleID | Date | Time | Analyses | Sample Type | Bottle Size | Preservative | Bottle Count |
|----------|---------|------|--|-------------|-------------|--------------|--------------|
| B13-8396 | 7/12/13 | 0958 | General Chemistry | Grab | 8 oz Glass | None | 1 |
| B13-8396 | 7/12/13 | 0958 | Metals | Grab | 8 oz Glass | None | 1 |
| B13-8396 | 7/12/13 | 0958 | PBDE | Grab | 8 oz Glass | None | 1 |
| B13-8396 | 7/12/13 | 0958 | PCBs, PAHs, and Chlorinated Hydrocarbons | Grab | 8 oz Glass | None | 1 |
| B13-8396 | 7/12/13 | 0958 | Pyrethroid Pesticides | Grab | 8 oz Glass | None | 1 |

Comments: See attachment for detailed analytical list.

Sampler's Initials: JS

Relinquished By: [Signature]

Date/Time: 7/17/13 1700

Received By: [Signature]

Date/Time: 7/13/13 1300

Relinquished By: _____

Date/Time: _____

Received By: _____

Date/Time: _____

Analysis Request and Chain of Custody

POLA/POLB

Harbor Toxics TMDL and Bight '13

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Phone: 714-602-5320 Fax: 714-602-5321

| SampleID | Date | Time | Analyses | Sample Type | Bottle Size | Preservative | Bottle Count |
|----------|---------|------|--|-------------|-------------|--------------|--------------|
| B13-8340 | 7/12/13 | 0819 | General Chemistry | Grab | 8 oz Glass | None | 1 |
| B13-8340 | 7/12/13 | 0819 | Metals | Grab | 8 oz Glass | None | 1 |
| B13-8340 | 7/12/13 | 0819 | PBDE | Grab | 8 oz Glass | None | 1 |
| B13-8340 | 7/12/13 | 0819 | PCBs, PAHs, and Chlorinated Hydrocarbons | Grab | 8 oz Glass | None | 1 |
| B13-8340 | 7/12/13 | 0819 | Pyrethroid Pesticides | Grab | 8 oz Glass | None | 1 |

Comments: See attachment for detailed analytical list.

Sampler's Initials: JSR
Relinquished By: [Signature] Date/Time: 7/17/13 1300 Received By: [Signature] Date/Time: 7/13/13 1300
Relinquished By: _____ Date/Time: _____ Received By: _____ Date/Time: _____

Analysis Request and Chain of Custody

POLA/POLB

Harbor Toxics TMDL and Bight '13

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Phone: 714-602-5320 Fax: 714-602-5321

| SampleID | Date | Time | Analyses | Sample Type | Bottle Size | Preservative | Bottle Count |
|----------|---------|------|--|-------------|-------------|--------------|--------------|
| B13-8347 | 7/12/13 | 1541 | General Chemistry | Grab | 8 oz Glass | None | 1 |
| B13-8347 | 7/12/13 | 1541 | Metals | Grab | 8 oz Glass | None | 1 |
| B13-8347 | 7/12/13 | 1541 | PBDE | Grab | 8 oz Glass | None | 1 |
| B13-8347 | 7/12/13 | 1541 | PCBs, PAHs, and Chlorinated Hydrocarbons | Grab | 8 oz Glass | None | 1 |
| B13-8347 | 7/12/13 | 1541 | Pyrethroid Pesticides | Grab | 8 oz Glass | None | 1 |

Comments: See attachment for detailed analytical list.

Sampler's Initials: JS

Relinquished By: [Signature]

Date/Time: 7/17/13 1700

Received By: [Signature]

Date/Time: 7/13/13 1300

Relinquished By: _____

Date/Time: _____

Received By: _____

Date/Time: _____

Analysis Request and Chain of Custody

POLA/POLB

Harbor Toxics TMDL and Bight '13

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| SampleID | Date | Time | Analyses | Sample Type | Bottle Size | Preservative | Bottle Count |
|----------|---------|------|--|-------------|-------------|--------------|--------------|
| TMDL6-CP | 7/12/13 | 1541 | General Chemistry | Grab | 8 oz Glass | None | 1 |
| TMDL6-CP | 7/12/13 | 1541 | Metals | Grab | 8 oz Glass | None | 1 |
| TMDL6-CP | 7/12/13 | 1541 | PCBs, PAHs, and Chlorinated Hydrocarbons | Grab | 8 oz Glass | None | 1 |

Comments: See attachment for detailed analysis list. NOTE: Analytical requirements for these samples differs from the Bight '13 samples.

Sampler's Initials: JS

Relinquished By: [Signature]

Date/Time: 7/13/13 1300

Received By: [Signature]

Date/Time: 7/13/13 1300

Relinquished By: _____

Date/Time: _____

Received By: _____

Date/Time: _____

Analysis Request and Chain of Custody

POLA/POLE

Harbor Toxics TMDL and Bight '13

From:

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1904 East Wright Circle
Anaheim, California 92806
Phone: 714-602-5320 Fax: 714-602-5321

| SampleID | Date | Time | Analyses | Sample Type | Bottle Size | Preservative | Bottle Count |
|----------|---------|------|-----------------------|-------------|-------------|--------------|--------------|
| TMDL4-CS | 7/12/13 | 1220 | Pyrethroid Pesticides | Grab | 8 oz Glass | None | 1 |

Comments: See attachment for detailed analysis list.

Sampler's Initials: JS

Relinquished By: [Signature]

Date/Time: 7/13/13 1300

Received By: [Signature]

Date/Time: 7/13/13 1300

Relinquished By: _____

Date/Time: _____

Received By: _____

Date/Time: _____

Analysis Request and Chain of Custody

POLA/POLB

Harbor Toxics TMDL and Bight '13

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To:

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Anaheim, California 92806
Phone: 714-602-5320 Fax: 714-602-5321

| SampleID | Date | Time | Analyses | Sample Type | Bottle Size | Preservative | Bottle Count |
|----------|---------|------|--|-------------|-------------|--------------|--------------|
| TMDL4-CS | 7/12/13 | 1220 | General Chemistry | Grab | 8 oz Glass | None | 1 |
| TMDL4-CS | 7/12/13 | 1220 | Metals | Grab | 8 oz Glass | None | 1 |
| TMDL4-CS | 7/12/13 | 1220 | PCBs, PAHs, and Chlorinated Hydrocarbons | Grab | 8 oz Glass | None | 1 |

Comments: See attachment for detailed analysis list. NOTE: Analytical requirements for these samples differs from the Bight '13 samples.

Sampler's Initials: JS

Relinquished By: [Signature]

Date/Time: 7/13/13 1300

Received By: [Signature]

Date/Time: 7/13/13 1300

Relinquished By: _____

Date/Time: _____

Received By: _____

Date/Time: _____

Analysis Request and Chain of Custody

POLA/POLB

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| SampleID | Date | Time | Analyses | Sample Type | Bottle Size | Preservative | Bottle Count |
|----------|---------|------|--|-------------|-------------|--------------|--------------|
| TMDL3-TB | 7/12/13 | 1541 | General Chemistry | Grab | 8 oz Glass | None | 1 |
| TMDL3-TB | 7/12/13 | 1541 | Metals | Grab | 8 oz Glass | None | 1 |
| TMDL3-TB | 7/12/13 | 1541 | PCBs, PAHs, and Chlorinated Hydrocarbons | Grab | 8 oz Glass | None | 1 |

Comments: See attachment for detailed analysis list. NOTE: Analytical requirements for these samples differs from the Bight '13 samples.

Sampler's Initials: JS

Relinquished By: [Signature]

Date/Time: 7/13/13 1300

Received By: [Signature]

Date/Time: 7/13/13 1300

Relinquished By: _____

Date/Time: _____

Received By: _____

Date/Time: _____

Analysis Request and Chain of Custody

POLA/POLB

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| SampleID | Date | Time | Analyses | Sample Type | Bottle Size | Preservative | Bottle Count |
|-----------------------------|---------|------|--|-------------|-------------|--------------|--------------|
| B13-8309 8365 | 7/13/13 | 0837 | General Chemistry | Grab | 8 oz Glass | None | 1 |
| B13-8309 8365 | 7/13/13 | 0837 | Metals | Grab | 8 oz Glass | None | 1 |
| B13-8309 8365 | 7/13/13 | 0837 | PBDE | Grab | 8 oz Glass | None | 1 |
| B13-8309 8365 | 7/13/13 | 0837 | PCBs, PAHs, and Chlorinated Hydrocarbons | Grab | 8 oz Glass | None | 1 |
| B13-8309 8365 | 7/13/13 | 0837 | Pyrethroid Pesticides | Grab | 8 oz Glass | None | 1 |

Comments: See attachment for detailed analytical list.

Sampler's Initials: JR

Relinquished By: [Signature]

Date/Time: 7/13/13 1300

Received By: [Signature]

Date/Time: 7/12/13 1200

Relinquished By: _____

Date/Time: _____

Received By: _____

Date/Time: _____

Analysis Request and Chain of Custody

POLA/POLB

Harbor Toxics TMDL and Bight '13

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| SampleID | Date | Time | Analyses | Sample Type | Bottle Size | Preservative | Bottle Count |
|----------|---------|------|--|-------------|-------------|--------------|--------------|
| B13-8318 | 7/13/13 | 1057 | General Chemistry | Grab | 8 oz Glass | None | 1 |
| B13-8318 | 7/13/13 | 1057 | Metals | Grab | 8 oz Glass | None | 1 |
| B13-8318 | 7/13/13 | 1057 | PBDE | Grab | 8 oz Glass | None | 1 |
| B13-8318 | 7/13/13 | 1057 | PCBs, PAHs, and Chlorinated Hydrocarbons | Grab | 8 oz Glass | None | 1 |
| B13-8318 | 7/13/13 | 1057 | Pyrethroid Pesticides | Grab | 8 oz Glass | None | 1 |

Comments: See attachment for detailed analytical list.

Sampler's Initials: JS

Relinquished By: [Signature]

Date/Time: 7/13/13 1300

Received By: [Signature]

Date/Time: 7/13/13 1300

Relinquished By: _____

Date/Time: _____

Received By: _____

Date/Time: _____

Analysis Request and Chain of Custody

POLA/POLB

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| SampleID | Date | Time | Analyses | Sample Type | Bottle Size | Preservative | Bottle Count |
|----------|---------|------|--|-------------|-------------|--------------|--------------|
| B13-8322 | 7/13/13 | 1011 | General Chemistry | Grab | 8 oz Glass | None | 1 |
| B13-8322 | 7/13/13 | 1011 | Metals | Grab | 8 oz Glass | None | 1 |
| B13-8322 | 7/13/13 | 1011 | PBDE | Grab | 8 oz Glass | None | 1 |
| B13-8322 | 7/13/13 | 1011 | PCBs, PAHs, and Chlorinated Hydrocarbons | Grab | 8 oz Glass | None | 1 |
| B13-8322 | 7/13/13 | 1011 | Pyrethroid Pesticides | Grab | 8 oz Glass | None | 1 |

Comments: See attachment for detailed analytical list.

Sampler's Initials: IR

Relinquished By: [Signature]

Date/Time: 7/13/13 1300

Received By: [Signature]

Date/Time: 7/13/13 1340

Relinquished By: _____

Date/Time: _____

Received By: _____

Date/Time: _____

Analysis Request and Chain of Custody

POLA/POLB

Harbor Toxics TMDL and Bight '13

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| SampleID | Date | Time | Analyses | Sample Type | Bottle Size | Preservative | Bottle Count |
|----------|---------|------|--|-------------|-------------|--------------|--------------|
| B13-8333 | 7/13/13 | 0743 | General Chemistry | Grab | 8 oz Glass | None | 1 |
| B13-8333 | 7/13/13 | 0743 | Metals | Grab | 8 oz Glass | None | 1 |
| B13-8333 | 7/13/13 | 0743 | PBDE | Grab | 8 oz Glass | None | 1 |
| B13-8333 | 7/13/13 | 0743 | PCBs, PAHs, and Chlorinated Hydrocarbons | Grab | 8 oz Glass | None | 1 |
| B13-8333 | 7/13/13 | 0743 | Pyrethroid Pesticides | Grab | 8 oz Glass | None | 1 |

Comments: See attachment for detailed analytical list.

Sampler's Initials: JR

Relinquished By: 

Date/Time: 7/13/13 1300

Received By: 

Date/Time: 7/13/13 1300

Relinquished By: _____

Date/Time: _____

Received By: _____

Date/Time: _____

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| SampleID | Date | Time | Analyses | Sample Type | Bottle Size | Preservative | Bottle Count |
|----------|---------|------|--|-------------|-------------|--------------|--------------|
| B13-8356 | 7/13/13 | 0922 | General Chemistry | Grab | 8 oz Glass | None | 1 |
| B13-8356 | 7/13/13 | 0922 | Metals | Grab | 8 oz Glass | None | 1 |
| B13-8356 | 7/13/13 | 0922 | PBDE | Grab | 8 oz Glass | None | 1 |
| B13-8356 | 7/13/13 | 0922 | PCBs, PAHs, and Chlorinated Hydrocarbons | Grab | 8 oz Glass | None | 1 |
| B13-8356 | 7/13/13 | 0922 | Pyrethroid Pesticides | Grab | 8 oz Glass | None | 1 |

Comments: See attachment for detailed analytical list.

Sampler's Initials: JS

Relinquished By: [Signature]

Date/Time: 7/13/13 1200

Received By: [Signature]

Date/Time: 7/13/13 1300

Relinquished By: _____

Date/Time: _____

Received By: _____

Date/Time: _____

AMEC - Chemical Analyte List for POLA/POLB Bight '13 Sediment Sampling

****26 Bight '13 Samples ONLY****

General Chemistry

| Analyte | Analysis Method | Screening Target Reporting Units |
|----------------------|--------------------------|----------------------------------|
| Total Solids | 981.4048 (981.4) | % DW |
| Total Organic Carbon | 9999 | % DW |
| Total Oil | 99999 | % DW |
| Total Phosphate | 991.34 (991.34) (991.34) | µg/g |
| Total Nitrogen | 991.0001 (991.0001) | µg/g |
| Ammonia | 991.0001 (991.0001) | µg/g |
| Chloride | 12694.912 | µg/g |

PAHs

| Analyte | Analysis Method | Screening Target Reporting Units |
|--------------------------|-----------------|----------------------------------|
| Acenaphthene | 4270C8100-0M | 20 µg/g |
| Acenaphthylene | 4270C8100-0M | 20 µg/g |
| Anthracene | 4270C8100-0M | 20 µg/g |
| Benzo[a]anthracene | 4270C8100-0M | 20 µg/g |
| Benzo[b]fluoranthene | 4270C8100-0M | 20 µg/g |
| Benzo[k]fluoranthene | 4270C8100-0M | 20 µg/g |
| Benzo[a]pyrene | 4270C8100-0M | 20 µg/g |
| Benzo[e]pyrene | 4270C8100-0M | 20 µg/g |
| Benzo[g]perylene | 4270C8100-0M | 20 µg/g |
| Benzo[h]perylene | 4270C8100-0M | 20 µg/g |
| Benzo[i]perylene | 4270C8100-0M | 20 µg/g |
| Benzo[ghi]perylene | 4270C8100-0M | 20 µg/g |
| Chrysene | 4270C8100-0M | 20 µg/g |
| Fluorene | 4270C8100-0M | 20 µg/g |
| Fluoranthene | 4270C8100-0M | 20 µg/g |
| Indeno[1,2,3-cd]perylene | 4270C8100-0M | 20 µg/g |
| Naphthalene | 4270C8100-0M | 20 µg/g |
| Phenanthrene | 4270C8100-0M | 20 µg/g |
| Pyrene | 4270C8100-0M | 20 µg/g |
| 1-Methylanthracene | 4270C8100-0M | 20 µg/g |
| 2-Methylanthracene | 4270C8100-0M | 20 µg/g |
| 1-Methylphenanthrene | 4270C8100-0M | 20 µg/g |
| 2-Methylphenanthrene | 4270C8100-0M | 20 µg/g |
| 1-Methylbenzo[a]pyrene | 4270C8100-0M | 20 µg/g |
| 2-Methylbenzo[a]pyrene | 4270C8100-0M | 20 µg/g |

Pesticidal Pesticides

| Analyte | Analysis Method | Screening Target Reporting Units |
|--------------|---------------------|----------------------------------|
| Azinphos | 874.0113 (874.0113) | µg/g |
| Alachlor | 874.0113 (874.0113) | µg/g |
| Alfomet | 874.0113 (874.0113) | µg/g |
| Carbofent | 874.0113 (874.0113) | µg/g |
| Carbofendim | 874.0113 (874.0113) | µg/g |
| Diazinon | 874.0113 (874.0113) | µg/g |
| Disulfoton | 874.0113 (874.0113) | µg/g |
| Endosulfan | 874.0113 (874.0113) | µg/g |
| Fenitrothion | 874.0113 (874.0113) | µg/g |
| Fenprophos | 874.0113 (874.0113) | µg/g |
| Fluazifluor | 874.0113 (874.0113) | µg/g |
| Flurothion | 874.0113 (874.0113) | µg/g |
| Glyphosate | 874.0113 (874.0113) | µg/g |
| Methidathion | 874.0113 (874.0113) | µg/g |
| Phosalone | 874.0113 (874.0113) | µg/g |
| Permethrin | 874.0113 (874.0113) | µg/g |
| Propoxur | 874.0113 (874.0113) | µg/g |
| Terbufos | 874.0113 (874.0113) | µg/g |

Metals

| Analyte | Analysis Method | Screening Target Reporting Units |
|-----------|-----------------|----------------------------------|
| Arsenic | 922500108 | µg |
| Cadmium | 922500108 | µg/g |
| Copper | 922500108 | µg/g |
| Lead | 922500108 | µg/g |
| Manganese | 922500108 | µg/g |
| Mercury | 922500108 | µg/g |
| Chromium | 922500108 | µg/g |
| Coarse | 922500108 | µg/g |
| Iron | 922500108 | µg |
| Lead | 922500108 | µg/g |
| Nickel | 922500108 | µg/g |
| Selenium | 922500108 | µg/g |
| Silver | 922500108 | µg/g |
| Zinc | 922500108 | µg/g |

NOEs

| Analyte | Analysis Method | Screening Target Reporting Units |
|---------|-----------------|----------------------------------|
| NOE-01 | 8272C1M1 | 17 µg/g |
| NOE-02 | 8272C1M2 | 21 µg/g |
| NOE-03 | 8272C1M3 | 81 µg/g |
| NOE-04 | 8272C1M4 | 21 µg/g |
| NOE-05 | 8272C1M5 | 21 µg/g |
| NOE-06 | 8272C1M6 | 21 µg/g |
| NOE-07 | 8272C1M7 | 21 µg/g |
| NOE-08 | 8272C1M8 | 21 µg/g |
| NOE-09 | 8272C1M9 | 21 µg/g |
| NOE-10 | 8272C1M10 | 21 µg/g |
| NOE-11 | 8272C1M11 | 21 µg/g |
| NOE-12 | 8272C1M12 | 21 µg/g |
| NOE-13 | 8272C1M13 | 21 µg/g |
| NOE-14 | 8272C1M14 | 21 µg/g |
| NOE-15 | 8272C1M15 | 21 µg/g |

Chlorinated Hydrocarbons

| Analyte | Analysis Method | Screening Target Reporting Units |
|-------------------------------|-----------------|----------------------------------|
| Chlorobenzene | 881A | 0.2 µg/g |
| 1,2-Dichlorobenzene | 881A | 0.2 µg/g |
| 1,4-Dichlorobenzene | 881A | 0.2 µg/g |
| 1,1-Dichloroethane | 881A | 0.2 µg/g |
| 1,1,1-Trichloroethane | 881A | 0.2 µg/g |
| 1,1,2-Trichloroethane | 881A | 0.2 µg/g |
| 1,2,3-Trichlorobenzene | 881A | 0.2 µg/g |
| 1,2,4-Trichlorobenzene | 881A | 0.2 µg/g |
| 1,3,5-Trichlorobenzene | 881A | 0.2 µg/g |
| 1,1,1,2-Tetrachloroethane | 881A | 0.2 µg/g |
| 1,1,1,2,2-Pentachloroethane | 881A | 0.2 µg/g |
| 1,1,2,2-Tetrachloroethane | 881A | 0.2 µg/g |
| 1,1,2,3-Tetrachlorobenzene | 881A | 0.2 µg/g |
| 1,2,3,4-Tetrachlorobenzene | 881A | 0.2 µg/g |
| 1,2,3,5-Tetrachlorobenzene | 881A | 0.2 µg/g |
| 1,2,4,5-Tetrachlorobenzene | 881A | 0.2 µg/g |
| 1,2,3,6-Tetrachlorobenzene | 881A | 0.2 µg/g |
| 1,3,4,5-Tetrachlorobenzene | 881A | 0.2 µg/g |
| 1,2,3,4,5-Pentachlorobenzene | 881A | 0.2 µg/g |
| 1,2,3,4,6-Pentachlorobenzene | 881A | 0.2 µg/g |
| 1,2,3,5,6-Pentachlorobenzene | 881A | 0.2 µg/g |
| 1,2,4,5,6-Pentachlorobenzene | 881A | 0.2 µg/g |
| 1,3,4,5,6-Pentachlorobenzene | 881A | 0.2 µg/g |
| 1,2,3,4,5,6-Hexachlorobenzene | 881A | 0.2 µg/g |

PCB Congeners

| Congener | Analysis Method | Screening Target Reporting Units |
|----------|-----------------|----------------------------------|
| PCB-1 | 4270C8100-0M | 0.2 µg/g |
| PCB-2 | 4270C8100-0M | 0.2 µg/g |
| PCB-3 | 4270C8100-0M | 0.2 µg/g |
| PCB-4 | 4270C8100-0M | 0.2 µg/g |
| PCB-5 | 4270C8100-0M | 0.2 µg/g |
| PCB-6 | 4270C8100-0M | 0.2 µg/g |
| PCB-7 | 4270C8100-0M | 0.2 µg/g |
| PCB-8 | 4270C8100-0M | 0.2 µg/g |
| PCB-9 | 4270C8100-0M | 0.2 µg/g |
| PCB-10 | 4270C8100-0M | 0.2 µg/g |
| PCB-11 | 4270C8100-0M | 0.2 µg/g |
| PCB-12 | 4270C8100-0M | 0.2 µg/g |
| PCB-13 | 4270C8100-0M | 0.2 µg/g |
| PCB-14 | 4270C8100-0M | 0.2 µg/g |
| PCB-15 | 4270C8100-0M | 0.2 µg/g |
| PCB-16 | 4270C8100-0M | 0.2 µg/g |
| PCB-17 | 4270C8100-0M | 0.2 µg/g |
| PCB-18 | 4270C8100-0M | 0.2 µg/g |
| PCB-19 | 4270C8100-0M | 0.2 µg/g |
| PCB-20 | 4270C8100-0M | 0.2 µg/g |
| PCB-21 | 4270C8100-0M | 0.2 µg/g |
| PCB-22 | 4270C8100-0M | 0.2 µg/g |
| PCB-23 | 4270C8100-0M | 0.2 µg/g |
| PCB-24 | 4270C8100-0M | 0.2 µg/g |
| PCB-25 | 4270C8100-0M | 0.2 µg/g |
| PCB-26 | 4270C8100-0M | 0.2 µg/g |
| PCB-27 | 4270C8100-0M | 0.2 µg/g |
| PCB-28 | 4270C8100-0M | 0.2 µg/g |
| PCB-29 | 4270C8100-0M | 0.2 µg/g |
| PCB-30 | 4270C8100-0M | 0.2 µg/g |
| PCB-31 | 4270C8100-0M | 0.2 µg/g |
| PCB-32 | 4270C8100-0M | 0.2 µg/g |
| PCB-33 | 4270C8100-0M | 0.2 µg/g |
| PCB-34 | 4270C8100-0M | 0.2 µg/g |
| PCB-35 | 4270C8100-0M | 0.2 µg/g |
| PCB-36 | 4270C8100-0M | 0.2 µg/g |
| PCB-37 | 4270C8100-0M | 0.2 µg/g |
| PCB-38 | 4270C8100-0M | 0.2 µg/g |
| PCB-39 | 4270C8100-0M | 0.2 µg/g |
| PCB-40 | 4270C8100-0M | 0.2 µg/g |
| PCB-41 | 4270C8100-0M | 0.2 µg/g |
| PCB-42 | 4270C8100-0M | 0.2 µg/g |
| PCB-43 | 4270C8100-0M | 0.2 µg/g |
| PCB-44 | 4270C8100-0M | 0.2 µg/g |
| PCB-45 | 4270C8100-0M | 0.2 µg/g |
| PCB-46 | 4270C8100-0M | 0.2 µg/g |
| PCB-47 | 4270C8100-0M | 0.2 µg/g |
| PCB-48 | 4270C8100-0M | 0.2 µg/g |
| PCB-49 | 4270C8100-0M | 0.2 µg/g |
| PCB-50 | 4270C8100-0M | 0.2 µg/g |
| PCB-51 | 4270C8100-0M | 0.2 µg/g |
| PCB-52 | 4270C8100-0M | 0.2 µg/g |
| PCB-53 | 4270C8100-0M | 0.2 µg/g |
| PCB-54 | 4270C8100-0M | 0.2 µg/g |
| PCB-55 | 4270C8100-0M | 0.2 µg/g |
| PCB-56 | 4270C8100-0M | 0.2 µg/g |
| PCB-57 | 4270C8100-0M | 0.2 µg/g |
| PCB-58 | 4270C8100-0M | 0.2 µg/g |
| PCB-59 | 4270C8100-0M | 0.2 µg/g |
| PCB-60 | 4270C8100-0M | 0.2 µg/g |
| PCB-61 | 4270C8100-0M | 0.2 µg/g |
| PCB-62 | 4270C8100-0M | 0.2 µg/g |
| PCB-63 | 4270C8100-0M | 0.2 µg/g |
| PCB-64 | 4270C8100-0M | 0.2 µg/g |
| PCB-65 | 4270C8100-0M | 0.2 µg/g |
| PCB-66 | 4270C8100-0M | 0.2 µg/g |
| PCB-67 | 4270C8100-0M | 0.2 µg/g |
| PCB-68 | 4270C8100-0M | 0.2 µg/g |
| PCB-69 | 4270C8100-0M | 0.2 µg/g |
| PCB-70 | 4270C8100-0M | 0.2 µg/g |
| PCB-71 | 4270C8100-0M | 0.2 µg/g |
| PCB-72 | 4270C8100-0M | 0.2 µg/g |
| PCB-73 | 4270C8100-0M | 0.2 µg/g |
| PCB-74 | 4270C8100-0M | 0.2 µg/g |
| PCB-75 | 4270C8100-0M | 0.2 µg/g |
| PCB-76 | 4270C8100-0M | 0.2 µg/g |
| PCB-77 | 4270C8100-0M | 0.2 µg/g |
| PCB-78 | 4270C8100-0M | 0.2 µg/g |
| PCB-79 | 4270C8100-0M | 0.2 µg/g |
| PCB-80 | 4270C8100-0M | 0.2 µg/g |
| PCB-81 | 4270C8100-0M | 0.2 µg/g |
| PCB-82 | 4270C8100-0M | 0.2 µg/g |
| PCB-83 | 4270C8100-0M | 0.2 µg/g |
| PCB-84 | 4270C8100-0M | 0.2 µg/g |
| PCB-85 | 4270C8100-0M | 0.2 µg/g |
| PCB-86 | 4270C8100-0M | 0.2 µg/g |
| PCB-87 | 4270C8100-0M | 0.2 µg/g |
| PCB-88 | 4270C8100-0M | 0.2 µg/g |
| PCB-89 | 4270C8100-0M | 0.2 µg/g |
| PCB-90 | 4270C8100-0M | 0.2 µg/g |
| PCB-91 | 4270C8100-0M | 0.2 µg/g |
| PCB-92 | 4270C8100-0M | 0.2 µg/g |
| PCB-93 | 4270C8100-0M | 0.2 µg/g |
| PCB-94 | 4270C8100-0M | 0.2 µg/g |
| PCB-95 | 4270C8100-0M | 0.2 µg/g |
| PCB-96 | 4270C8100-0M | 0.2 µg/g |
| PCB-97 | 4270C8100-0M | 0.2 µg/g |
| PCB-98 | 4270C8100-0M | 0.2 µg/g |
| PCB-99 | 4270C8100-0M | 0.2 µg/g |
| PCB-100 | 4270C8100-0M | 0.2 µg/g |

AMEC - Chemical Analyte List for POLA/POLB Bight '13 Sediment Sampling

****6 TMDL Sites ONLY****

General Chemistry

| Analyte | Analysis Method | Assessed Target Reservoir Limit |
|------------------------|-----------------|---------------------------------|
| Total Solids | MS 2001 (24) B | 0.1% |
| Total Dissolved Carbon | 300 | 0.1% |
| Total Phosphorus | 30000 | 0.1% |
| Ammonia | MS 4001 (4) | 0.2 mg/L |
| Sulfide | MS 4134 (24) J | 0.3 mg/L |

Metals

| Analyte | Analysis Method | Assessed Target Reservoir Limit |
|----------------------------|-----------------|---------------------------------|
| Barium | MS 3002 (28) | NA |
| Cadmium | MS 3003 (28) | 10 mg/L |
| Chromium | MS 3004 (28) | 1.0 mg/L |
| Copper | MS 3005 (28) | NA |
| Lead | MS 3006 (28) | 0.2 mg/L |
| Nickel | MS 3007 (28) | 0.2 mg/L |
| Selenium | MS 3008 (28) | 0.1 mg/L |
| Zinc | MS 3009 (28) | 0.2 mg/L |
| Mercury | MS 3010 (28) | 0.1 mg/L |
| Vanadium | MS 3011 (28) | 0.1 mg/L |
| Manganese | MS 3012 (28) | 0.1 mg/L |
| Iron | MS 3013 (28) | NA |
| Molybdenum | MS 3014 (28) | 0.1 mg/L |
| Silver | MS 3015 (28) | 0.01 mg/L |
| Strontium | MS 3016 (28) | 0.1 mg/L |
| Thallium | MS 3017 (28) | 0.1 mg/L |
| Antimony | MS 3018 (28) | 0.1 mg/L |
| Uranium | MS 3019 (28) | 0.1 mg/L |
| Bismuth | MS 3020 (28) | 0.1 mg/L |
| Fluoride | MS 3021 (28) | 0.1 mg/L |
| Chloride | MS 3022 (28) | 0.1 mg/L |
| Sulfate | MS 3023 (28) | 0.1 mg/L |
| Calcium | MS 3024 (28) | 0.1 mg/L |
| Magnesium | MS 3025 (28) | 0.1 mg/L |
| Potassium | MS 3026 (28) | 0.1 mg/L |
| Sodium | MS 3027 (28) | 0.1 mg/L |
| Ammonium | MS 3028 (28) | 0.1 mg/L |
| Hydroxide | MS 3029 (28) | 0.1 mg/L |
| Phosphate | MS 3030 (28) | 0.1 mg/L |
| Nitrate | MS 3031 (28) | 0.1 mg/L |
| 3,3-Dibromodiphenylmethane | MS 3032 (28) | 0.1 mg/L |
| 1-Methylpiperazine | MS 3033 (28) | 0.1 mg/L |
| 3-Methylimidazole | MS 3034 (28) | 0.1 mg/L |
| 1,4-Dioxane | MS 3035 (28) | 0.1 mg/L |
| 1,4-Dioxolane | MS 3036 (28) | 0.1 mg/L |

PCB Congeners

| Analyte | Analysis Method | Assessed Target Reservoir Limit |
|---------|-----------------|---------------------------------|
| PCB-1 | MS 3037 (28) | 0.1 mg/kg |
| PCB-2 | MS 3038 (28) | 0.1 mg/kg |
| PCB-3 | MS 3039 (28) | 0.1 mg/kg |
| PCB-4 | MS 3040 (28) | 0.1 mg/kg |
| PCB-5 | MS 3041 (28) | 0.1 mg/kg |
| PCB-6 | MS 3042 (28) | 0.1 mg/kg |
| PCB-7 | MS 3043 (28) | 0.1 mg/kg |
| PCB-8 | MS 3044 (28) | 0.1 mg/kg |
| PCB-9 | MS 3045 (28) | 0.1 mg/kg |
| PCB-10 | MS 3046 (28) | 0.1 mg/kg |
| PCB-11 | MS 3047 (28) | 0.1 mg/kg |
| PCB-12 | MS 3048 (28) | 0.1 mg/kg |
| PCB-13 | MS 3049 (28) | 0.1 mg/kg |
| PCB-14 | MS 3050 (28) | 0.1 mg/kg |
| PCB-15 | MS 3051 (28) | 0.1 mg/kg |
| PCB-16 | MS 3052 (28) | 0.1 mg/kg |
| PCB-17 | MS 3053 (28) | 0.1 mg/kg |
| PCB-18 | MS 3054 (28) | 0.1 mg/kg |
| PCB-19 | MS 3055 (28) | 0.1 mg/kg |
| PCB-20 | MS 3056 (28) | 0.1 mg/kg |
| PCB-21 | MS 3057 (28) | 0.1 mg/kg |
| PCB-22 | MS 3058 (28) | 0.1 mg/kg |
| PCB-23 | MS 3059 (28) | 0.1 mg/kg |
| PCB-24 | MS 3060 (28) | 0.1 mg/kg |
| PCB-25 | MS 3061 (28) | 0.1 mg/kg |
| PCB-26 | MS 3062 (28) | 0.1 mg/kg |
| PCB-27 | MS 3063 (28) | 0.1 mg/kg |
| PCB-28 | MS 3064 (28) | 0.1 mg/kg |
| PCB-29 | MS 3065 (28) | 0.1 mg/kg |
| PCB-30 | MS 3066 (28) | 0.1 mg/kg |
| PCB-31 | MS 3067 (28) | 0.1 mg/kg |
| PCB-32 | MS 3068 (28) | 0.1 mg/kg |
| PCB-33 | MS 3069 (28) | 0.1 mg/kg |
| PCB-34 | MS 3070 (28) | 0.1 mg/kg |
| PCB-35 | MS 3071 (28) | 0.1 mg/kg |
| PCB-36 | MS 3072 (28) | 0.1 mg/kg |
| PCB-37 | MS 3073 (28) | 0.1 mg/kg |
| PCB-38 | MS 3074 (28) | 0.1 mg/kg |
| PCB-39 | MS 3075 (28) | 0.1 mg/kg |
| PCB-40 | MS 3076 (28) | 0.1 mg/kg |
| PCB-41 | MS 3077 (28) | 0.1 mg/kg |
| PCB-42 | MS 3078 (28) | 0.1 mg/kg |
| PCB-43 | MS 3079 (28) | 0.1 mg/kg |
| PCB-44 | MS 3080 (28) | 0.1 mg/kg |
| PCB-45 | MS 3081 (28) | 0.1 mg/kg |
| PCB-46 | MS 3082 (28) | 0.1 mg/kg |
| PCB-47 | MS 3083 (28) | 0.1 mg/kg |
| PCB-48 | MS 3084 (28) | 0.1 mg/kg |
| PCB-49 | MS 3085 (28) | 0.1 mg/kg |
| PCB-50 | MS 3086 (28) | 0.1 mg/kg |
| PCB-51 | MS 3087 (28) | 0.1 mg/kg |
| PCB-52 | MS 3088 (28) | 0.1 mg/kg |
| PCB-53 | MS 3089 (28) | 0.1 mg/kg |
| PCB-54 | MS 3090 (28) | 0.1 mg/kg |
| PCB-55 | MS 3091 (28) | 0.1 mg/kg |
| PCB-56 | MS 3092 (28) | 0.1 mg/kg |
| PCB-57 | MS 3093 (28) | 0.1 mg/kg |
| PCB-58 | MS 3094 (28) | 0.1 mg/kg |
| PCB-59 | MS 3095 (28) | 0.1 mg/kg |
| PCB-60 | MS 3096 (28) | 0.1 mg/kg |
| PCB-61 | MS 3097 (28) | 0.1 mg/kg |
| PCB-62 | MS 3098 (28) | 0.1 mg/kg |
| PCB-63 | MS 3099 (28) | 0.1 mg/kg |
| PCB-64 | MS 3100 (28) | 0.1 mg/kg |
| PCB-65 | MS 3101 (28) | 0.1 mg/kg |
| PCB-66 | MS 3102 (28) | 0.1 mg/kg |
| PCB-67 | MS 3103 (28) | 0.1 mg/kg |
| PCB-68 | MS 3104 (28) | 0.1 mg/kg |
| PCB-69 | MS 3105 (28) | 0.1 mg/kg |
| PCB-70 | MS 3106 (28) | 0.1 mg/kg |
| PCB-71 | MS 3107 (28) | 0.1 mg/kg |
| PCB-72 | MS 3108 (28) | 0.1 mg/kg |
| PCB-73 | MS 3109 (28) | 0.1 mg/kg |
| PCB-74 | MS 3110 (28) | 0.1 mg/kg |
| PCB-75 | MS 3111 (28) | 0.1 mg/kg |
| PCB-76 | MS 3112 (28) | 0.1 mg/kg |
| PCB-77 | MS 3113 (28) | 0.1 mg/kg |
| PCB-78 | MS 3114 (28) | 0.1 mg/kg |
| PCB-79 | MS 3115 (28) | 0.1 mg/kg |
| PCB-80 | MS 3116 (28) | 0.1 mg/kg |
| PCB-81 | MS 3117 (28) | 0.1 mg/kg |
| PCB-82 | MS 3118 (28) | 0.1 mg/kg |
| PCB-83 | MS 3119 (28) | 0.1 mg/kg |
| PCB-84 | MS 3120 (28) | 0.1 mg/kg |
| PCB-85 | MS 3121 (28) | 0.1 mg/kg |
| PCB-86 | MS 3122 (28) | 0.1 mg/kg |
| PCB-87 | MS 3123 (28) | 0.1 mg/kg |
| PCB-88 | MS 3124 (28) | 0.1 mg/kg |
| PCB-89 | MS 3125 (28) | 0.1 mg/kg |
| PCB-90 | MS 3126 (28) | 0.1 mg/kg |
| PCB-91 | MS 3127 (28) | 0.1 mg/kg |
| PCB-92 | MS 3128 (28) | 0.1 mg/kg |
| PCB-93 | MS 3129 (28) | 0.1 mg/kg |
| PCB-94 | MS 3130 (28) | 0.1 mg/kg |
| PCB-95 | MS 3131 (28) | 0.1 mg/kg |
| PCB-96 | MS 3132 (28) | 0.1 mg/kg |
| PCB-97 | MS 3133 (28) | 0.1 mg/kg |
| PCB-98 | MS 3134 (28) | 0.1 mg/kg |
| PCB-99 | MS 3135 (28) | 0.1 mg/kg |
| PCB-100 | MS 3136 (28) | 0.1 mg/kg |

Dibenzofuran Hydrocarbons

| Analyte | Analysis Method | Assessed Target Reservoir Limit |
|--------------------------------------|-----------------|---------------------------------|
| 2,3-Dibenzofuran | MS 3137 | 0.1 mg/kg |
| 2,8-Dibenzofuran | MS 3138 | 0.1 mg/kg |
| 2,9-Dibenzofuran | MS 3139 | 0.1 mg/kg |
| 2,3,8-Tribenzofuran | MS 3140 | 0.1 mg/kg |
| 2,3,9-Tribenzofuran | MS 3141 | 0.1 mg/kg |
| 2,8,9-Tribenzofuran | MS 3142 | 0.1 mg/kg |
| 2,3,8,9-Tetra-benzofuran | MS 3143 | 0.1 mg/kg |
| 2,3,8,9a-Tetra-benzofuran | MS 3144 | 0.1 mg/kg |
| 2,3,8,9b-Tetra-benzofuran | MS 3145 | 0.1 mg/kg |
| 2,3,9,9a-Tetra-benzofuran | MS 3146 | 0.1 mg/kg |
| 2,3,9,9b-Tetra-benzofuran | MS 3147 | 0.1 mg/kg |
| 2,3,8,9a,9b-Penta-benzofuran | MS 3148 | 0.1 mg/kg |
| 2,3,8,9,9a-Penta-benzofuran | MS 3149 | 0.1 mg/kg |
| 2,3,8,9,9b-Penta-benzofuran | MS 3150 | 0.1 mg/kg |
| 2,3,8,9a,9b,9c-Hexa-benzofuran | MS 3151 | 0.1 mg/kg |
| 2,3,8,9,9a,9b-Hexa-benzofuran | MS 3152 | 0.1 mg/kg |
| 2,3,8,9,9a,9c-Hexa-benzofuran | MS 3153 | 0.1 mg/kg |
| 2,3,8,9,9b,9c-Hexa-benzofuran | MS 3154 | 0.1 mg/kg |
| 2,3,8,9a,9b,9c,9d-Hepta-benzofuran | MS 3155 | 0.1 mg/kg |
| 2,3,8,9,9a,9b,9c-Hepta-benzofuran | MS 3156 | 0.1 mg/kg |
| 2,3,8,9,9a,9b,9d-Hepta-benzofuran | MS 3157 | 0.1 mg/kg |
| 2,3,8,9,9a,9c,9d-Hepta-benzofuran | MS 3158 | 0.1 mg/kg |
| 2,3,8,9,9b,9c,9d-Hepta-benzofuran | MS 3159 | 0.1 mg/kg |
| 2,3,8,9a,9b,9c,9d,9e-Octa-benzofuran | MS 3160 | 0.1 mg/kg |
| 2,3,8,9,9a,9b,9c,9d-Octa-benzofuran | MS 3161 | 0.1 mg/kg |
| 2,3,8,9,9a,9b,9c,9e-Octa-benzofuran | MS 3162 | 0.1 mg/kg |
| 2,3,8,9,9a,9b,9c,9f-Octa-benzofuran | MS 3163 | 0.1 mg/kg |
| 2,3,8,9,9a,9b,9c,9g-Octa-benzofuran | MS 3164 | 0.1 mg/kg |
| 2,3,8,9,9a,9b,9c,9h-Octa-benzofuran | MS 3165 | 0.1 mg/kg |
| 2,3,8,9,9a,9b,9c,9i-Octa-benzofuran | MS 3166 | 0.1 mg/kg |
| 2,3,8,9,9a,9b,9c,9j-Octa-benzofuran | MS 3167 | 0.1 mg/kg |
| 2,3,8,9,9a,9b,9c,9k-Octa-benzofuran | MS 3168 | 0.1 mg/kg |
| 2,3,8,9,9a,9b,9c,9l-Octa-benzofuran | MS 3169 | 0.1 mg/kg |
| 2,3,8,9,9a,9b,9c,9m-Octa-benzofuran | MS 3170 | 0.1 mg/kg |
| 2,3,8,9,9a,9b,9c,9n-Octa-benzofuran | MS 3171 | 0.1 mg/kg |
| 2,3,8,9,9a,9b,9c,9o-Octa-benzofuran | MS 3172 | 0.1 mg/kg |
| 2,3,8,9,9a,9b,9c,9p-Octa-benzofuran | MS 3173 | 0.1 mg/kg |
| 2,3,8,9,9a,9b,9c,9q-Octa-benzofuran | MS 3174 | 0.1 mg/kg |
| 2,3,8,9,9a,9b,9c,9r-Octa-benzofuran | MS 3175 | 0.1 mg/kg |
| 2,3,8,9,9a,9b,9c,9s-Octa-benzofuran | MS 3176 | 0.1 mg/kg |
| 2,3,8,9,9a,9b,9c,9t-Octa-benzofuran | MS 3177 | 0.1 mg/kg |
| 2,3,8,9,9a,9b,9c,9u-Octa-benzofuran | MS 3178 | 0.1 mg/kg |
| 2,3,8,9,9a,9b,9c,9v-Octa-benzofuran | MS 3179 | 0.1 mg/kg |
| 2,3,8,9,9a,9b,9c,9w-Octa-benzofuran | MS 3180 | 0.1 mg/kg |
| 2,3,8,9,9a,9b,9c,9x-Octa-benzofuran | MS 3181 | 0.1 mg/kg |
| 2,3,8,9,9a,9b,9c,9y-Octa-benzofuran | MS 3182 | 0.1 mg/kg |
| 2,3,8,9,9a,9b,9c,9z-Octa-benzofuran | MS 3183 | 0.1 mg/kg |
| 2,3,8,9,9a,9b,9c,9aa-Octa-benzofuran | MS 3184 | 0.1 mg/kg |
| 2,3,8,9,9a,9b,9c,9ab-Octa-benzofuran | MS 3185 | 0.1 mg/kg |
| 2,3,8,9,9a,9b,9c,9ac-Octa-benzofuran | MS 3186 | 0.1 mg/kg |
| 2,3,8,9,9a,9b,9c,9ad-Octa-benzofuran | MS 3187 | 0.1 mg/kg |
| 2,3,8,9,9a,9b,9c,9ae-Octa-benzofuran | MS 3188 | 0.1 mg/kg |
| 2,3,8,9,9a,9b,9c,9af-Octa-benzofuran | MS 3189 | 0.1 mg/kg |
| 2,3,8,9,9a,9b,9c,9ag-Octa-benzofuran | MS 3190 | 0.1 mg/kg |
| 2,3,8,9,9a,9b,9c,9ah-Octa-benzofuran | MS 3191 | 0.1 mg/kg |
| 2,3,8,9,9a,9b,9c,9ai-Octa-benzofuran | MS 3192 | 0.1 mg/kg |
| 2,3,8,9,9a,9b,9c,9aj-Octa-benzofuran | MS 3193 | 0.1 mg/kg |
| 2,3,8,9,9a,9b,9c,9ak-Octa-benzofuran | MS 3194 | 0.1 mg/kg |
| 2,3,8,9,9a,9b,9c,9al-Octa-benzofuran | MS 3195 | 0.1 mg/kg |
| 2,3,8,9,9a,9b,9c,9am-Octa-benzofuran | MS 3196 | 0.1 mg/kg |
| 2,3,8,9,9a,9b,9c,9an-Octa-benzofuran | MS 3197 | 0.1 mg/kg |
| 2,3,8,9,9a,9b,9c,9ao-Octa-benzofuran | MS 3198 | 0.1 mg/kg |
| 2,3,8,9,9a,9b,9c,9ap-Octa-benzofuran | MS 3199 | 0.1 mg/kg |
| 2,3,8,9,9a,9b,9c,9aq-Octa-benzofuran | MS 3200 | 0.1 mg/kg |
| 2,3,8,9,9a,9b,9c,9ar-Octa-benzofuran | MS 3201 | 0.1 mg/kg |
| 2,3,8,9,9a,9b,9c,9as-Octa-benzofuran | MS 3202 | 0.1 mg/kg |
| 2,3,8,9,9a,9b,9c,9at-Octa-benzofuran | MS 3203 | 0.1 mg/kg |
| 2,3,8,9,9a,9b,9c,9au-Octa-benzofuran | MS 3204 | 0.1 mg/kg |
| 2,3,8,9,9a,9b,9c,9av-Octa-benzofuran | MS 3205 | 0.1 mg/kg |
| 2,3,8,9,9a,9b,9c,9aw-Octa-benzofuran | MS 3206 | 0.1 mg/kg |
| 2,3,8,9,9a,9b,9c,9ax-Octa-benzofuran | MS 3207 | 0.1 mg/kg |
| 2,3,8,9,9a,9b,9c,9ay-Octa-benzofuran | MS 3208 | 0.1 mg/kg |
| 2,3,8,9,9a,9b,9c,9az-Octa-benzofuran | MS 3209 | 0.1 mg/kg |
| 2,3,8,9,9a,9b,9c,9ba-Octa-benzofuran | MS 3210 | 0.1 mg/kg |
| 2,3,8,9,9a,9b,9c,9bb-Octa-benzofuran | MS 3211 | 0.1 mg/kg |
| 2,3,8,9,9a,9b,9c,9bc-Octa-benzofuran | MS 3212 | 0.1 mg/kg |
| 2,3,8,9,9a,9b,9c,9bd-Octa-benzofuran | MS 3213 | 0.1 mg/kg |
| 2,3,8,9,9a,9b,9c,9be-Octa-benzofuran | MS 3214 | 0.1 mg/kg |
| 2,3,8,9,9a,9b,9c,9bf-Octa-benzofuran | MS 3215 | 0.1 mg/kg |
| 2,3,8,9,9a,9b,9c,9bg-Octa-benzofuran | MS 3216 | 0.1 mg/kg |
| 2,3,8,9,9a,9b,9c,9bh-Octa-benzofuran | MS 3217 | 0.1 mg/kg |
| 2,3,8,9,9a,9b,9c,9bi-Octa-benzofuran | MS 3218 | 0.1 mg/kg |
| 2,3,8,9,9a,9b,9c,9bj-Octa-benzofuran | MS 3219 | 0.1 mg/kg |
| 2,3,8,9,9a,9b,9c,9bk-Octa-benzofuran | MS 3220 | 0.1 mg/kg |
| 2,3,8,9,9a,9b,9c,9bl-Octa-benzofuran | MS 3221 | 0.1 mg/kg |
| 2,3,8,9,9a,9b,9c,9bm-Octa-benzofuran | MS 3222 | 0.1 mg/kg |
| 2,3,8,9,9a,9b,9c,9bn-Octa-benzofuran | MS 3223 | 0.1 mg/kg |
| 2,3,8,9,9a,9b,9c,9bo-Octa-benzofuran | MS 3224 | 0.1 mg/kg |
| 2,3,8,9,9a,9b,9c,9bp-Octa-benzofuran | MS 3225 | 0.1 mg/kg |
| 2,3,8,9,9a,9b,9c,9bq-Octa-benzofuran | MS 3226 | 0.1 mg/kg |
| 2,3,8,9,9a,9b,9c,9br-Octa-benzofuran | MS 3227 | 0.1 mg/kg |
| 2,3,8,9,9a,9b,9c,9bs-Octa-benzofuran | MS 3228 | 0.1 mg/kg |
| 2,3,8,9,9a,9b,9c,9bt-Octa-benzofuran | MS 3229 | 0.1 mg/kg |
| 2,3,8,9,9a,9b,9c,9bu-Octa-benzofuran | MS 3230 | 0.1 mg/kg |
| 2,3,8,9,9a,9b,9c,9bv-Octa-benzofuran | MS 3231 | 0.1 mg/kg |
| 2,3,8,9,9a,9b,9c,9bw-Octa-benzofuran | MS 3232 | 0.1 mg/kg |
| 2,3,8,9,9a,9b,9c,9bx-Octa-benzofuran | MS 3233 | 0.1 mg/kg |
| 2,3,8,9,9a,9b,9c,9by-Octa-benzofuran | MS 3234 | 0.1 mg/kg |
| 2,3,8,9,9a,9b,9c,9bz-Octa-benzofuran | MS 3235 | 0.1 mg/kg |
| 2,3,8,9,9a,9b,9c,9ca-Octa-benzofuran | MS 3236 | 0.1 mg/kg |
| 2,3,8,9,9a,9b,9c,9cb-Octa-benzofuran | MS 3237 | 0.1 mg/kg |
| 2,3,8,9,9a,9b,9c,9cc-Octa-benzofuran | MS 3238 | 0.1 mg/kg |
| 2,3,8,9,9a,9b,9c,9cd-Octa-benzofuran | MS 3239 | 0.1 mg/kg |
| 2,3,8,9,9a,9b,9c,9ce-Octa-benzofuran | MS 3240 | 0.1 mg/kg |
| 2,3,8,9,9a,9b,9c,9cf-Octa-benzofuran | MS 3241 | 0.1 mg/kg |
| 2,3,8,9,9a,9b,9c,9cg-Octa-benzofuran | MS 3242 | 0.1 mg/kg |
| 2,3,8,9,9a,9b,9c,9ch-Octa-benzofuran | MS 3243 | 0.1 mg/kg |
| 2,3,8,9,9a,9b,9c,9ci-Octa-benzofuran | MS 3244 | 0.1 mg/kg |
| 2,3,8,9,9a,9b,9c,9cj-Octa-benzofuran | MS 3245 | 0.1 mg/kg |
| 2,3,8,9,9a,9b,9c,9ck-Octa-benzofuran | MS 3246 | 0.1 mg/kg |
| 2,3,8,9,9a,9b,9c,9cl-Octa-benzofuran | MS 3247 | 0.1 mg/kg |
| 2,3,8,9,9a,9b,9c,9cm-Octa-benzofuran | MS 3248 | 0.1 mg/kg |
| 2,3,8,9,9a,9b,9c,9cn-Octa-benzofuran | MS 3249 | 0.1 mg/kg |
| 2,3,8,9,9a,9b,9c,9co-Octa-benzofuran | MS 3250 | 0.1 mg/kg |
| 2,3,8,9,9a,9b, | | |

SAMPLE RECEIPT SUMMARY

CLIENT: AMEC Date Received: 7/13/13 Received By: MB Inspected By: EV

COURIER

PHYSIS
 CLIENT
 FEDEX
 UPS
start 11:30 end 14:00
 OTHER: _____

COOLER

COOLER
 BOX
 total # _____
 OTHER: _____
 _____ 5 _____

TEMPERATURE

_____ °C
 WET ICE
 BLUE ICE
 DRY ICE
 NONE

SAMPLE INTEGRITY UPON RECEIPT

1. COC(s) included and completely filled out..... **YES**
2. All sample containers arrived intact..... **YES**
3. All samples listed on COC(s) are present..... **YES**
4. Information on containers consistent with information on COC(s)..... **YES**
5. Correct containers and volume for all analyses indicated..... **YES**
6. All samples received within method holding time..... **YES**
7. Correct preservation used for all analyses indicated..... **YES**

NOTES

APPENDIX B-3

FISH SAMPLE CHEMISTRY REPORTS



Calscience



WORK ORDER NUMBER: 14-10-1157

The difference is service



AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: ANCHOR QEA, LLC

Client Project Name: GWMA - TMDL Compliance Monitoring

Attention: Andy Martin
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Approved for release on 11/21/2014 by:
Danielle Gonsman
Project Manager

ResultLink ▶

Email your PM ▶



Eurofins Calscience, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

Contents

Client Project Name: GWMA - TMDL Compliance Monitoring
 Work Order Number: 14-10-1157

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CASE NARRATIVE

Eurofins Calscience Work Order No.: 14-10-1157
Project ID: GWMA – TMDL Compliance Monitoring

Provided below is a narrative of our analytical effort, including any unique features or anomalies encountered as part of the analysis of the tissue samples.

Sample Condition on Receipt

Sixty-nine tissue samples were received on 29 September, 2014, and fifty-seven tissue samples were received on 30 September, 2014 (under ECI WO No. 14-09-2314 and 14-09-2442). The samples were transferred to the laboratory in an ice-chest on ice, following strict chain-of-custody (COC) procedures. The temperature of the samples upon receipt at the laboratory ranged from 3.3-3.6°C. All samples were given laboratory identification numbers and held in freezers pending further instructions. On 15 October, 2014, the samples were re-labeled and logged into the Laboratory Information Management System (LIMS) based on the compositing instructions provided by the client.

Tests Performed

Percent Moisture by ASTM D-2216 (M)
Chlorinated Pesticides by EPA 8270C SIM
Toxaphene by EPA 8081A
PCB Congeners by EPA 8270C SIM
Percent Lipids by MeCl₂/NOAA 1993a

Data Summary

All samples were homogenized prior to preparation and analysis.

Holding times

All holding times were met.

Calibration

Frequency and control criteria for initial and continuing calibration verifications were met.

Reporting Limits

All Method Detection Limits were met. The results were evaluated to the MDL, and where applicable, “J” flags were reported.

Method Blanks

Concentrations of target analytes in the method blank were found to be below reporting limits for all testing.

Laboratory Control Samples

A Laboratory Control Sample (LCS) analysis was performed at the required frequencies, and unless otherwise noted, all parameters were within the established control limits.

Several of the pesticide LCS recoveries were below the 50-150% criteria specified in the SAP. However, the recovery was within ECI's control limits.

Matrix Spikes

Matrix spike analyses were performed for each applicable analysis on project samples as sample volume allowed. All parameters for the project sample matrix spikes were within the established control limits unless otherwise noted.

The MS, MSD and/or RPDs for several EPA 8270C SIM Pesticide analytes were outside the 50-150% control limits specified in the project SAP. In addition, one or more MS, MSD and/or RPD values were outside ECI's control limits. The results have been flagged with the appropriate qualifiers and are released with no further action since the LCS recoveries were within the control limits.

Several of the PCB Congener matrix spike recoveries were outside the 50-150% control limits. Since the LCS/LCSDs were in control, the results are released with no further action.

Surrogates

Surrogate recoveries for all applicable tests and samples were within the established control limits with the following exceptions.

The Dibutylchloroendate recovery was above the control limits in sample CS-FF-WC-C1-20141015. The results were confirmed by re-analysis and have been released with the appropriate qualifiers.

Acronyms

LCS - Laboratory Control Sample
MS/MSD- Matrix Spike/Matrix Spike Duplicate
RPD- Relative Percent Difference

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 10/15/14. They were assigned to Work Order 14-10-1157.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of ≤ 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

New York NELAP air certification does not certify for all reported methods and analytes, reference the accredited items here: http://www.calscience.com/PDF/New_York.pdf

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.



Calscience

Sample Summary

| | |
|------------------------------|---|
| Client: ANCHOR QEA, LLC | Work Order: 14-10-1157 |
| 27201 Puerta Real, Suite 350 | Project Name: GWMA - TMDL Compliance Monitoring |
| Mission Viejo, CA 92691-8306 | PO Number: |
| | Date/Time Received: 10/15/14 11:31 |
| | Number of Containers: 3 |

Attn: Andy Martin

| Sample Identification | Lab Number | Collection Date and Time | Number of Containers | Matrix |
|-----------------------|--------------|--------------------------|----------------------|--------|
| CS-FF-WC-C1-20141015 | 14-10-1157-1 | 10/15/14 11:30 | 1 | Tissue |
| CS-FF-WC-C2-20141015 | 14-10-1157-2 | 10/15/14 11:30 | 1 | Tissue |
| CS-FF-WC-C3-20141015 | 14-10-1157-3 | 10/15/14 11:30 | 1 | Tissue |

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 10/15/14
Work Order: 14-10-1157
Preparation: N/A
Method: ASTM D-2216 (M)
Units: %

Project: GWMA - TMDL Compliance Monitoring

Page 1 of 1

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------------|------------------------|---------------------------|---------------|------------|-----------------|---------------------------|-------------------|
| CS-FF-WC-C1-20141015 | 14-10-1157-1-AA | 10/15/14 11:30 | Tissue | N/A | 10/15/14 | 10/16/14 10:40 | E1016MOIB2 |
| <u>Parameter</u> | | <u>Result</u> | <u>RL</u> | | <u>DF</u> | | <u>Qualifiers</u> |
| Moisture | | 76.8 | 0.100 | | 1.00 | | |
| CS-FF-WC-C2-20141015 | 14-10-1157-2-AA | 10/15/14 11:30 | Tissue | N/A | 10/15/14 | 10/16/14 10:40 | E1016MOIB2 |
| <u>Parameter</u> | | <u>Result</u> | <u>RL</u> | | <u>DF</u> | | <u>Qualifiers</u> |
| Moisture | | 78.1 | 0.100 | | 1.00 | | |
| CS-FF-WC-C3-20141015 | 14-10-1157-3-AA | 10/15/14 11:30 | Tissue | N/A | 10/15/14 | 10/16/14 10:40 | E1016MOIB2 |
| <u>Parameter</u> | | <u>Result</u> | <u>RL</u> | | <u>DF</u> | | <u>Qualifiers</u> |
| Moisture | | 77.2 | 0.100 | | 1.00 | | |
| Method Blank | 099-05-014-4945 | N/A | Solid | N/A | 10/15/14 | 10/16/14 10:40 | E1016MOIB2 |
| <u>Parameter</u> | | <u>Result</u> | <u>RL</u> | | <u>DF</u> | | <u>Qualifiers</u> |
| Moisture | | ND | 0.100 | | 1.00 | | |

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 10/15/14
 Work Order: 14-10-1157
 Preparation: EPA 3541
 Method: EPA 8081A
 Units: ug/kg

Project: GWMA - TMDL Compliance Monitoring

Page 1 of 1

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| CS-FF-WC-C1-20141015 | 14-10-1157-1-AA | 10/15/14 11:30 | Tissue | GC 63 | 10/17/14 | 10/28/14 12:21 | 141017L08 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------------------------|----------|----------------|------------|------|------------|
| Toxaphene | ND | 5.0 | 0.61 | 1.00 | |
| Surrogate | Rec. (%) | Control Limits | Qualifiers | | |
| Dibutylchloroendate | 150 | 10-150 | | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 114 | 10-150 | | | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| CS-FF-WC-C2-20141015 | 14-10-1157-2-AA | 10/15/14 11:30 | Tissue | GC 63 | 10/17/14 | 10/28/14 12:35 | 141017L08 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------------------------|----------|----------------|------------|------|------------|
| Toxaphene | ND | 5.0 | 0.61 | 1.00 | |
| Surrogate | Rec. (%) | Control Limits | Qualifiers | | |
| Dibutylchloroendate | 118 | 10-150 | | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 93 | 10-150 | | | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| CS-FF-WC-C3-20141015 | 14-10-1157-3-AA | 10/15/14 11:30 | Tissue | GC 63 | 10/17/14 | 10/28/14 12:49 | 141017L08 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------------------------|----------|----------------|------------|------|------------|
| Toxaphene | ND | 5.0 | 0.61 | 1.00 | |
| Surrogate | Rec. (%) | Control Limits | Qualifiers | | |
| Dibutylchloroendate | 109 | 10-150 | | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 111 | 10-150 | | | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| Method Blank | 099-15-677-30 | N/A | Solid | GC 63 | 10/17/14 | 10/22/14 14:18 | 141017L08 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------------------------|----------|----------------|------------|------|------------|
| Toxaphene | ND | 5.0 | 0.61 | 1.00 | |
| Surrogate | Rec. (%) | Control Limits | Qualifiers | | |
| Dibutylchloroendate | 70 | 10-150 | | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 76 | 10-150 | | | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 10/15/14
Work Order: 14-10-1157
Preparation: EPA 3541
Method: EPA 8270C PEST-SIM
Units: ug/kg

Project: GWMA - TMDL Compliance Monitoring

Page 1 of 4

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| CS-FF-WC-C1-20141015 | 14-10-1157-1-AA | 10/15/14 11:30 | Tissue | GC/MS NNN | 10/17/14 | 11/14/14 12:45 | 141017L08M |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------------|--------|------|-------|------|------------|
| Alpha Chlordane | 6.7 | 0.20 | 0.067 | 1.00 | |
| Cis-nonachlor | 3.8 | 0.20 | 0.024 | 1.00 | |
| 2,4'-DDD | 1.3 | 0.20 | 0.049 | 1.00 | |
| 2,4'-DDT | ND | 0.20 | 0.032 | 1.00 | |
| 4,4'-DDT | 1.5 | 0.20 | 0.081 | 1.00 | |
| Dieldrin | ND | 0.20 | 0.090 | 1.00 | |
| Gamma Chlordane | 3.2 | 0.20 | 0.046 | 1.00 | |
| Oxychlordane | ND | 0.20 | 0.076 | 1.00 | |
| Trans-nonachlor | 6.9 | 0.20 | 0.048 | 1.00 | |

| Surrogate | Rec. (%) | Control Limits | Qualifiers |
|------------------------------|----------|----------------|------------|
| Dibutylchloredate | 154 | 10-150 | 2,7 |
| 2,4,5,6-Tetrachloro-m-Xylene | 141 | 10-150 | |

| CS-FF-WC-C1-20141015 | 14-10-1157-1-AA | 10/15/14 11:30 | Tissue | GC/MS NNN | 10/17/14 | 11/14/14 12:27 | 141017L08M |
|----------------------|-----------------|-------------------|--------|-----------|----------|-------------------|------------|
|----------------------|-----------------|-------------------|--------|-----------|----------|-------------------|------------|

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|-----|------|------|------------|
| 2,4'-DDE | 8.4 | 1.0 | 0.24 | 5.00 | |
| 4,4'-DDD | 18 | 1.0 | 0.21 | 5.00 | |

| Surrogate | Rec. (%) | Control Limits | Qualifiers |
|------------------------------|----------|----------------|------------|
| Dibutylchloredate | 163 | 10-150 | 1,2,7 |
| 2,4,5,6-Tetrachloro-m-Xylene | 144 | 10-150 | |

| CS-FF-WC-C1-20141015 | 14-10-1157-1-AA | 10/15/14 11:30 | Tissue | GC/MS NNN | 10/17/14 | 11/14/14 12:10 | 141017L08M |
|----------------------|-----------------|-------------------|--------|-----------|----------|-------------------|------------|
|----------------------|-----------------|-------------------|--------|-----------|----------|-------------------|------------|

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|----|-----|------|------------|
| 4,4'-DDE | 230 | 10 | 3.5 | 50.0 | |

| Surrogate | Rec. (%) | Control Limits | Qualifiers |
|------------------------------|----------|----------------|------------|
| Dibutylchloredate | 187 | 10-150 | 1,2,7 |
| 2,4,5,6-Tetrachloro-m-Xylene | 145 | 10-150 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 10/15/14
 Work Order: 14-10-1157
 Preparation: EPA 3541
 Method: EPA 8270C PEST-SIM
 Units: ug/kg

Project: GWMA - TMDL Compliance Monitoring

Page 2 of 4

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| CS-FF-WC-C2-20141015 | 14-10-1157-2-AA | 10/15/14 11:30 | Tissue | GC/MS NNN | 10/17/14 | 11/14/14 13:21 | 141017L08M |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------------------------|-----------------|-----------------------|-------------------|------|------------|
| Alpha Chlordane | 1.5 | 0.20 | 0.067 | 1.00 | |
| Cis-nonachlor | 0.75 | 0.20 | 0.024 | 1.00 | |
| 2,4'-DDD | 0.26 | 0.20 | 0.049 | 1.00 | |
| 2,4'-DDE | 2.1 | 0.20 | 0.048 | 1.00 | |
| 2,4'-DDT | ND | 0.20 | 0.032 | 1.00 | |
| 4,4'-DDD | 4.1 | 0.20 | 0.042 | 1.00 | |
| 4,4'-DDT | 0.37 | 0.20 | 0.081 | 1.00 | |
| Dieldrin | ND | 0.20 | 0.090 | 1.00 | |
| Gamma Chlordane | 0.64 | 0.20 | 0.046 | 1.00 | |
| Oxychlordane | ND | 0.20 | 0.076 | 1.00 | |
| Trans-nonachlor | 1.3 | 0.20 | 0.048 | 1.00 | |
| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> | | |
| Dibutylchloredate | 57 | 10-150 | | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 51 | 10-150 | | | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| CS-FF-WC-C2-20141015 | 14-10-1157-2-AA | 10/15/14 11:30 | Tissue | GC/MS NNN | 10/17/14 | 11/14/14 13:03 | 141017L08M |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------------------------|-----------------|-----------------------|-------------------|------|------------|
| 4,4'-DDE | 54 | 4.0 | 1.4 | 20.0 | |
| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> | | |
| Dibutylchloredate | 75 | 10-150 | | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 53 | 10-150 | | | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 10/15/14
Work Order: 14-10-1157
Preparation: EPA 3541
Method: EPA 8270C PEST-SIM
Units: ug/kg

Project: GWMA - TMDL Compliance Monitoring

Page 3 of 4

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| CS-FF-WC-C3-20141015 | 14-10-1157-3-AA | 10/15/14 11:30 | Tissue | GC/MS NNN | 10/17/14 | 11/14/14 14:15 | 141017L08M |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------------------------|----------|----------------|------------|------|------------|
| Alpha Chlordane | 2.0 | 0.20 | 0.067 | 1.00 | |
| Cis-nonachlor | 0.94 | 0.20 | 0.024 | 1.00 | |
| 2,4'-DDD | 0.29 | 0.20 | 0.049 | 1.00 | |
| 2,4'-DDE | 4.7 | 0.20 | 0.048 | 1.00 | |
| 2,4'-DDT | ND | 0.20 | 0.032 | 1.00 | |
| 4,4'-DDD | 2.2 | 0.20 | 0.042 | 1.00 | |
| 4,4'-DDT | 0.22 | 0.20 | 0.081 | 1.00 | |
| Dieldrin | ND | 0.20 | 0.090 | 1.00 | |
| Gamma Chlordane | 0.78 | 0.20 | 0.046 | 1.00 | |
| Oxychlordane | ND | 0.20 | 0.076 | 1.00 | |
| Trans-nonachlor | 1.5 | 0.20 | 0.048 | 1.00 | |
| Surrogate | Rec. (%) | Control Limits | Qualifiers | | |
| Dibutylchloredate | 54 | 10-150 | | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 51 | 10-150 | | | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| CS-FF-WC-C3-20141015 | 14-10-1157-3-AA | 10/15/14 11:30 | Tissue | GC/MS NNN | 10/17/14 | 11/14/14 13:39 | 141017L08M |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------------------------|----------|----------------|------------|------|------------|
| 4,4'-DDE | 66 | 10 | 3.5 | 50.0 | |
| Surrogate | Rec. (%) | Control Limits | Qualifiers | | |
| Dibutylchloredate | 86 | 10-150 | | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 66 | 10-150 | | | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 10/15/14
 Work Order: 14-10-1157
 Preparation: EPA 3541
 Method: EPA 8270C PEST-SIM
 Units: ug/kg

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| Method Blank | 099-16-514-4 | N/A | Tissue | GC/MS NNN | 10/17/14 | 11/13/14 13:13 | 141017L08M |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------------------------|----------|----------------|------------|------|------------|
| Alpha Chlordane | ND | 0.20 | 0.067 | 1.00 | |
| Cis-nonachlor | ND | 0.20 | 0.024 | 1.00 | |
| 2,4'-DDD | ND | 0.20 | 0.049 | 1.00 | |
| 2,4'-DDE | ND | 0.20 | 0.048 | 1.00 | |
| 2,4'-DDT | ND | 0.20 | 0.032 | 1.00 | |
| 4,4'-DDD | ND | 0.20 | 0.042 | 1.00 | |
| 4,4'-DDE | ND | 0.20 | 0.071 | 1.00 | |
| 4,4'-DDT | ND | 0.20 | 0.081 | 1.00 | |
| Dieldrin | ND | 0.20 | 0.090 | 1.00 | |
| Gamma Chlordane | ND | 0.20 | 0.046 | 1.00 | |
| Oxychlordane | ND | 0.20 | 0.076 | 1.00 | |
| Trans-nonachlor | ND | 0.20 | 0.048 | 1.00 | |
| Surrogate | Rec. (%) | Control Limits | Qualifiers | | |
| Dibutylchloroendate | 19 | 10-150 | | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 25 | 10-150 | | | |



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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 10/15/14
Work Order: 14-10-1157
Preparation: EPA 3541
Method: EPA 8270C SIM PCB Congeners
Units: ug/kg

Project: GWMA - TMDL Compliance Monitoring

Page 1 of 8

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| CS-FF-WC-C1-20141015 | 14-10-1157-1-AA | 10/15/14 11:30 | Tissue | GC/MS NNN | 10/17/14 | 10/21/14 18:41 | 141017L08 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------|--------|------|-------|------|------------|
| PCB018 | 0.61 | 0.20 | 0.039 | 1.00 | |
| PCB028 | 1.6 | 0.20 | 0.055 | 1.00 | |
| PCB037 | ND | 0.20 | 0.035 | 1.00 | |
| PCB044 | 2.8 | 0.20 | 0.092 | 1.00 | |
| PCB049 | 4.2 | 0.20 | 0.086 | 1.00 | |
| PCB052 | 6.2 | 0.20 | 0.051 | 1.00 | |
| PCB066 | 4.7 | 0.20 | 0.075 | 1.00 | |
| PCB070 | 2.9 | 0.20 | 0.048 | 1.00 | |
| PCB074 | 2.7 | 0.20 | 0.046 | 1.00 | |
| PCB077 | 2.0 | 0.20 | 0.085 | 1.00 | |
| PCB081 | ND | 0.20 | 0.064 | 1.00 | |
| PCB087 | 4.0 | 0.20 | 0.041 | 1.00 | |
| PCB099 | 9.4 | 0.20 | 0.054 | 1.00 | |
| PCB101 | 15 | 0.20 | 0.051 | 1.00 | |
| PCB105 | 4.5 | 0.20 | 0.042 | 1.00 | |
| PCB110 | 9.8 | 0.20 | 0.046 | 1.00 | |
| PCB114 | ND | 0.20 | 0.036 | 1.00 | |
| PCB118 | 13 | 0.20 | 0.059 | 1.00 | |
| PCB119 | 0.71 | 0.20 | 0.046 | 1.00 | |
| PCB123 | 1.1 | 0.20 | 0.047 | 1.00 | |
| PCB126 | ND | 0.20 | 0.034 | 1.00 | |
| PCB128 | 2.5 | 0.20 | 0.039 | 1.00 | |
| PCB132/153 | 34 | 0.40 | 0.067 | 1.00 | |
| PCB138/158 | 20 | 0.40 | 0.075 | 1.00 | |
| PCB149 | 13 | 0.20 | 0.048 | 1.00 | |
| PCB151 | 4.6 | 0.20 | 0.062 | 1.00 | |
| PCB156 | 1.3 | 0.20 | 0.066 | 1.00 | |
| PCB157 | 0.25 | 0.20 | 0.051 | 1.00 | |
| PCB167 | 0.92 | 0.20 | 0.042 | 1.00 | |
| PCB168 | ND | 0.20 | 0.045 | 1.00 | |
| PCB169 | 0.62 | 0.20 | 0.033 | 1.00 | |
| PCB170 | 4.2 | 0.20 | 0.050 | 1.00 | |
| PCB177 | 2.0 | 0.20 | 0.040 | 1.00 | |
| PCB180 | 10 | 0.20 | 0.030 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 10/15/14
 Work Order: 14-10-1157
 Preparation: EPA 3541
 Method: EPA 8270C SIM PCB Congeners
 Units: ug/kg

Project: GWMA - TMDL Compliance Monitoring

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| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|-----------------|-----------------------|-------------------|-----------|-------------------|
| PCB183 | 3.2 | 0.20 | 0.032 | 1.00 | |
| PCB187 | 8.8 | 0.20 | 0.039 | 1.00 | |
| PCB189 | 0.15 | 0.20 | 0.025 | 1.00 | J |
| PCB194 | 1.5 | 0.20 | 0.041 | 1.00 | |
| PCB195 | 0.65 | 0.20 | 0.032 | 1.00 | |
| PCB201 | 0.31 | 0.20 | 0.044 | 1.00 | |
| PCB206 | 0.84 | 0.20 | 0.045 | 1.00 | |
| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> | | |
| 2-Fluorobiphenyl | 59 | 10-150 | | | |
| p-Terphenyl-d14 | 55 | 10-150 | | | |


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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 10/15/14
Work Order: 14-10-1157
Preparation: EPA 3541
Method: EPA 8270C SIM PCB Congeners
Units: ug/kg

Project: GWMA - TMDL Compliance Monitoring

Page 3 of 8

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| CS-FF-WC-C2-20141015 | 14-10-1157-2-AA | 10/15/14 11:30 | Tissue | GC/MS NNN | 10/17/14 | 10/21/14 19:05 | 141017L08 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------|--------|------|-------|------|------------|
| PCB018 | 0.43 | 0.20 | 0.039 | 1.00 | |
| PCB028 | 0.91 | 0.20 | 0.055 | 1.00 | |
| PCB037 | 0.37 | 0.20 | 0.035 | 1.00 | |
| PCB044 | 1.4 | 0.20 | 0.092 | 1.00 | |
| PCB049 | 4.0 | 0.20 | 0.086 | 1.00 | |
| PCB052 | 6.1 | 0.20 | 0.051 | 1.00 | |
| PCB066 | 2.2 | 0.20 | 0.075 | 1.00 | |
| PCB070 | 1.2 | 0.20 | 0.048 | 1.00 | |
| PCB074 | 1.2 | 0.20 | 0.046 | 1.00 | |
| PCB077 | 1.7 | 0.20 | 0.085 | 1.00 | |
| PCB081 | ND | 0.20 | 0.064 | 1.00 | |
| PCB087 | 1.9 | 0.20 | 0.041 | 1.00 | |
| PCB099 | 6.3 | 0.20 | 0.054 | 1.00 | |
| PCB101 | 9.4 | 0.20 | 0.051 | 1.00 | |
| PCB105 | 2.3 | 0.20 | 0.042 | 1.00 | |
| PCB110 | 5.1 | 0.20 | 0.046 | 1.00 | |
| PCB114 | ND | 0.20 | 0.036 | 1.00 | |
| PCB118 | 6.3 | 0.20 | 0.059 | 1.00 | |
| PCB119 | 0.72 | 0.20 | 0.046 | 1.00 | |
| PCB123 | 0.49 | 0.20 | 0.047 | 1.00 | |
| PCB126 | ND | 0.20 | 0.034 | 1.00 | |
| PCB128 | 1.4 | 0.20 | 0.039 | 1.00 | |
| PCB132/153 | 26 | 0.40 | 0.067 | 1.00 | |
| PCB138/158 | 13 | 0.40 | 0.075 | 1.00 | |
| PCB149 | 11 | 0.20 | 0.048 | 1.00 | |
| PCB151 | 4.0 | 0.20 | 0.062 | 1.00 | |
| PCB156 | 0.77 | 0.20 | 0.066 | 1.00 | |
| PCB157 | 0.15 | 0.20 | 0.051 | 1.00 | J |
| PCB167 | 0.61 | 0.20 | 0.042 | 1.00 | |
| PCB168 | ND | 0.20 | 0.045 | 1.00 | |
| PCB169 | 0.46 | 0.20 | 0.033 | 1.00 | |
| PCB170 | 3.1 | 0.20 | 0.050 | 1.00 | |
| PCB177 | 1.4 | 0.20 | 0.040 | 1.00 | |
| PCB180 | 8.4 | 0.20 | 0.030 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 10/15/14
 Work Order: 14-10-1157
 Preparation: EPA 3541
 Method: EPA 8270C SIM PCB Congeners
 Units: ug/kg

Project: GWMA - TMDL Compliance Monitoring

Page 4 of 8

| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|-----------------|-----------------------|-------------------|-----------|-------------------|
| PCB183 | 2.6 | 0.20 | 0.032 | 1.00 | |
| PCB187 | 8.2 | 0.20 | 0.039 | 1.00 | |
| PCB189 | 0.12 | 0.20 | 0.025 | 1.00 | J |
| PCB194 | 1.3 | 0.20 | 0.041 | 1.00 | |
| PCB195 | 0.52 | 0.20 | 0.032 | 1.00 | |
| PCB201 | 0.28 | 0.20 | 0.044 | 1.00 | |
| PCB206 | 0.54 | 0.20 | 0.045 | 1.00 | |
| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> | | |
| 2-Fluorobiphenyl | 54 | 10-150 | | | |
| p-Terphenyl-d14 | 53 | 10-150 | | | |

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 10/15/14
Work Order: 14-10-1157
Preparation: EPA 3541
Method: EPA 8270C SIM PCB Congeners
Units: ug/kg

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| CS-FF-WC-C3-20141015 | 14-10-1157-3-AA | 10/15/14 11:30 | Tissue | GC/MS NNN | 10/17/14 | 10/21/14 19:28 | 141017L08 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------|--------|------|-------|------|------------|
| PCB018 | 0.91 | 0.20 | 0.039 | 1.00 | |
| PCB028 | 1.5 | 0.20 | 0.055 | 1.00 | |
| PCB037 | ND | 0.20 | 0.035 | 1.00 | |
| PCB044 | 2.2 | 0.20 | 0.092 | 1.00 | |
| PCB049 | 2.1 | 0.20 | 0.086 | 1.00 | |
| PCB052 | 3.0 | 0.20 | 0.051 | 1.00 | |
| PCB066 | 2.3 | 0.20 | 0.075 | 1.00 | |
| PCB070 | 2.4 | 0.20 | 0.048 | 1.00 | |
| PCB074 | 1.5 | 0.20 | 0.046 | 1.00 | |
| PCB077 | 0.40 | 0.20 | 0.085 | 1.00 | |
| PCB081 | ND | 0.20 | 0.064 | 1.00 | |
| PCB087 | 1.8 | 0.20 | 0.041 | 1.00 | |
| PCB099 | 2.8 | 0.20 | 0.054 | 1.00 | |
| PCB101 | 4.0 | 0.20 | 0.051 | 1.00 | |
| PCB105 | 1.4 | 0.20 | 0.042 | 1.00 | |
| PCB110 | 3.0 | 0.20 | 0.046 | 1.00 | |
| PCB114 | 0.12 | 0.20 | 0.036 | 1.00 | J |
| PCB118 | 3.8 | 0.20 | 0.059 | 1.00 | |
| PCB119 | 0.15 | 0.20 | 0.046 | 1.00 | J |
| PCB123 | 0.49 | 0.20 | 0.047 | 1.00 | |
| PCB126 | ND | 0.20 | 0.034 | 1.00 | |
| PCB128 | 0.84 | 0.20 | 0.039 | 1.00 | |
| PCB132/153 | 6.7 | 0.40 | 0.067 | 1.00 | |
| PCB138/158 | 4.8 | 0.40 | 0.075 | 1.00 | |
| PCB149 | 2.6 | 0.20 | 0.048 | 1.00 | |
| PCB151 | 0.80 | 0.20 | 0.062 | 1.00 | |
| PCB156 | 0.33 | 0.20 | 0.066 | 1.00 | |
| PCB157 | 0.11 | 0.20 | 0.051 | 1.00 | J |
| PCB167 | 0.25 | 0.20 | 0.042 | 1.00 | |
| PCB168 | ND | 0.20 | 0.045 | 1.00 | |
| PCB169 | 0.15 | 0.20 | 0.033 | 1.00 | J |
| PCB170 | 0.81 | 0.20 | 0.050 | 1.00 | |
| PCB177 | 0.50 | 0.20 | 0.040 | 1.00 | |
| PCB180 | 1.6 | 0.20 | 0.030 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 10/15/14
 Work Order: 14-10-1157
 Preparation: EPA 3541
 Method: EPA 8270C SIM PCB Congeners
 Units: ug/kg

Project: GWMA - TMDL Compliance Monitoring

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| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|-----------------|-----------------------|-------------------|-----------|-------------------|
| PCB183 | 0.50 | 0.20 | 0.032 | 1.00 | |
| PCB187 | 1.8 | 0.20 | 0.039 | 1.00 | |
| PCB189 | 0.054 | 0.20 | 0.025 | 1.00 | J |
| PCB194 | 0.35 | 0.20 | 0.041 | 1.00 | |
| PCB195 | 0.14 | 0.20 | 0.032 | 1.00 | J |
| PCB201 | 0.083 | 0.20 | 0.044 | 1.00 | J |
| PCB206 | 0.26 | 0.20 | 0.045 | 1.00 | |
| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> | | |
| 2-Fluorobiphenyl | 68 | 10-150 | | | |
| p-Terphenyl-d14 | 57 | 10-150 | | | |

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 10/15/14
Work Order: 14-10-1157
Preparation: EPA 3541
Method: EPA 8270C SIM PCB Congeners
Units: ug/kg

Project: GWMA - TMDL Compliance Monitoring

Page 7 of 8

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| Method Blank | 099-16-504-4 | N/A | Tissue | GC/MS NNN | 10/17/14 | 10/21/14 18:18 | 141017L08 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------|--------|------|-------|------|------------|
| PCB018 | ND | 0.20 | 0.039 | 1.00 | |
| PCB028 | ND | 0.20 | 0.055 | 1.00 | |
| PCB037 | ND | 0.20 | 0.035 | 1.00 | |
| PCB044 | ND | 0.20 | 0.092 | 1.00 | |
| PCB049 | ND | 0.20 | 0.086 | 1.00 | |
| PCB052 | ND | 0.20 | 0.051 | 1.00 | |
| PCB066 | ND | 0.20 | 0.075 | 1.00 | |
| PCB070 | ND | 0.20 | 0.048 | 1.00 | |
| PCB074 | ND | 0.20 | 0.046 | 1.00 | |
| PCB077 | ND | 0.20 | 0.085 | 1.00 | |
| PCB081 | ND | 0.20 | 0.064 | 1.00 | |
| PCB087 | ND | 0.20 | 0.041 | 1.00 | |
| PCB099 | ND | 0.20 | 0.054 | 1.00 | |
| PCB101 | ND | 0.20 | 0.051 | 1.00 | |
| PCB105 | ND | 0.20 | 0.042 | 1.00 | |
| PCB110 | ND | 0.20 | 0.046 | 1.00 | |
| PCB114 | ND | 0.20 | 0.036 | 1.00 | |
| PCB118 | ND | 0.20 | 0.059 | 1.00 | |
| PCB119 | ND | 0.20 | 0.046 | 1.00 | |
| PCB123 | ND | 0.20 | 0.047 | 1.00 | |
| PCB126 | ND | 0.20 | 0.034 | 1.00 | |
| PCB128 | ND | 0.20 | 0.039 | 1.00 | |
| PCB132/153 | ND | 0.40 | 0.067 | 1.00 | |
| PCB138/158 | ND | 0.40 | 0.075 | 1.00 | |
| PCB149 | ND | 0.20 | 0.048 | 1.00 | |
| PCB151 | ND | 0.20 | 0.062 | 1.00 | |
| PCB156 | ND | 0.20 | 0.066 | 1.00 | |
| PCB157 | ND | 0.20 | 0.051 | 1.00 | |
| PCB167 | ND | 0.20 | 0.042 | 1.00 | |
| PCB168 | ND | 0.20 | 0.045 | 1.00 | |
| PCB169 | ND | 0.20 | 0.033 | 1.00 | |
| PCB170 | ND | 0.20 | 0.050 | 1.00 | |
| PCB177 | ND | 0.20 | 0.040 | 1.00 | |
| PCB180 | ND | 0.20 | 0.030 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 10/15/14
 Work Order: 14-10-1157
 Preparation: EPA 3541
 Method: EPA 8270C SIM PCB Congeners
 Units: ug/kg

Project: GWMA - TMDL Compliance Monitoring

Page 8 of 8

| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|-----------------|-----------------------|-------------------|-----------|-------------------|
| PCB183 | ND | 0.20 | 0.032 | 1.00 | |
| PCB187 | ND | 0.20 | 0.039 | 1.00 | |
| PCB189 | ND | 0.20 | 0.025 | 1.00 | |
| PCB194 | ND | 0.20 | 0.041 | 1.00 | |
| PCB195 | ND | 0.20 | 0.032 | 1.00 | |
| PCB201 | ND | 0.20 | 0.044 | 1.00 | |
| PCB206 | ND | 0.20 | 0.045 | 1.00 | |
| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> | | |
| 2-Fluorobiphenyl | 55 | 10-150 | | | |
| p-Terphenyl-d14 | 51 | 10-150 | | | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 10/15/14
Work Order: 14-10-1157
Preparation: EPA 3541
Method: MeCl2 Ext. (NOAA 1993a)
Units: %

Project: GWMA - TMDL Compliance Monitoring

Page 1 of 1

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------------|------------------------|---------------------------|---------------|----------------|-----------------|---------------------------|-------------------|
| CS-FF-WC-C1-20141015 | 14-10-1157-1-AA | 10/15/14 11:30 | Tissue | B03/B13 | 10/17/14 | 10/17/14 00:00 | 141017L08 |
| <u>Parameter</u> | | <u>Result</u> | <u>RL</u> | | <u>DF</u> | | <u>Qualifiers</u> |
| % Lipids | | 2.2 | 0.10 | | 1.00 | | |
| CS-FF-WC-C2-20141015 | 14-10-1157-2-AA | 10/15/14 11:30 | Tissue | B03/B13 | 10/17/14 | 10/17/14 00:00 | 141017L08 |
| <u>Parameter</u> | | <u>Result</u> | <u>RL</u> | | <u>DF</u> | | <u>Qualifiers</u> |
| % Lipids | | 1.8 | 0.10 | | 1.00 | | |
| CS-FF-WC-C3-20141015 | 14-10-1157-3-AA | 10/15/14 11:30 | Tissue | B03/B13 | 10/17/14 | 10/17/14 00:00 | 141017L08 |
| <u>Parameter</u> | | <u>Result</u> | <u>RL</u> | | <u>DF</u> | | <u>Qualifiers</u> |
| % Lipids | | 3.2 | 0.10 | | 1.00 | | |
| Method Blank | 099-14-104-96 | N/A | Solid | B03/B13 | 10/17/14 | 10/17/14 00:00 | 141017L08 |
| <u>Parameter</u> | | <u>Result</u> | <u>RL</u> | | <u>DF</u> | | <u>Qualifiers</u> |
| % Lipids | | ND | 0.10 | | 1.00 | | |

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Quality Control - Spike/Spike Duplicate

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 10/15/14
Work Order: 14-10-1157
Preparation: EPA 3541
Method: EPA 8270C PEST-SIM

Project: GWMA - TMDL Compliance Monitoring

Page 1 of 2

| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | MS/MSD Batch Number |
|---------------------------|------------------------|--------|------------|---------------|----------------|---------------------|
| CS-FF-WC-C1-20141015 | Sample | Tissue | GC/MS NNN | 10/17/14 | 11/14/14 12:27 | 141017S08M |
| CS-FF-WC-C1-20141015 | Matrix Spike | Tissue | GC/MS NNN | 10/17/14 | 11/18/14 17:14 | 141017S08M |
| CS-FF-WC-C1-20141015 | Matrix Spike Duplicate | Tissue | GC/MS NNN | 10/17/14 | 11/18/14 17:32 | 141017S08M |

| Parameter | Sample Conc. | Spike Added | MS Conc. | MS %Rec. | MSD Conc. | MSD %Rec. | %Rec. CL | RPD | RPD CL | Qualifiers |
|-----------------|--------------|-------------|----------|----------|-----------|-----------|----------|-----|--------|------------|
| Alpha Chlordane | 6.669 | 5.000 | 6.370 | 0 | 4.119 | 0 | 10-150 | 43 | 0-30 | 3,4 |
| 4,4'-DDD | 17.86 | 5.000 | 10.99 | 0 | 7.356 | 0 | 10-150 | 40 | 0-30 | 3,4 |
| 4,4'-DDE | 234.4 | 5.000 | 91.69 | 0 | 61.97 | 0 | 10-150 | 39 | 0-30 | 3,4 |
| 4,4'-DDT | 1.539 | 5.000 | 4.530 | 60 | 2.772 | 25 | 10-150 | 48 | 0-30 | 4 |
| Dieldrin | ND | 5.000 | 4.488 | 90 | 3.139 | 63 | 10-150 | 35 | 0-30 | 4 |
| Gamma Chlordane | 3.210 | 5.000 | 4.717 | 30 | 3.029 | 0 | 10-150 | 44 | 0-30 | 3,4 |

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RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - Spike/Spike Duplicate

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 10/15/14
Work Order: 14-10-1157
Preparation: EPA 3541
Method: EPA 8270C SIM PCB Congeners

Project: GWMA - TMDL Compliance Monitoring

Page 2 of 2

| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | MS/MSD Batch Number |
|---------------------------|------------------------|--------|------------|---------------|----------------|---------------------|
| CS-FF-WC-C2-20141015 | Sample | Tissue | GC/MS NNN | 10/17/14 | 10/21/14 19:05 | 141017S08 |
| CS-FF-WC-C2-20141015 | Matrix Spike | Tissue | GC/MS NNN | 10/17/14 | 10/21/14 20:39 | 141017S08 |
| CS-FF-WC-C2-20141015 | Matrix Spike Duplicate | Tissue | GC/MS NNN | 10/17/14 | 10/21/14 21:02 | 141017S08 |

| Parameter | Sample Conc. | Spike Added | MS Conc. | MS %Rec. | MSD Conc. | MSD %Rec. | %Rec. CL | RPD | RPD CL | Qualifiers |
|-----------|--------------|-------------|----------|----------|-----------|-----------|----------|-----|--------|------------|
| PCB018 | 0.4319 | 50.00 | 24.37 | 48 | 30.49 | 60 | 10-150 | 22 | 0-30 | |
| PCB028 | 0.9070 | 50.00 | 25.81 | 50 | 32.39 | 63 | 10-150 | 23 | 0-30 | |
| PCB044 | 1.381 | 50.00 | 25.33 | 48 | 32.20 | 62 | 10-150 | 24 | 0-30 | |
| PCB052 | 6.109 | 50.00 | 30.94 | 50 | 39.44 | 67 | 10-150 | 24 | 0-30 | |
| PCB066 | 2.210 | 50.00 | 25.38 | 46 | 31.99 | 60 | 10-150 | 23 | 0-30 | |
| PCB077 | 1.743 | 50.00 | 26.67 | 50 | 34.01 | 65 | 10-150 | 24 | 0-30 | |
| PCB101 | 9.392 | 50.00 | 30.26 | 42 | 38.88 | 59 | 10-150 | 25 | 0-30 | |
| PCB105 | 2.268 | 50.00 | 26.87 | 49 | 34.56 | 65 | 10-150 | 25 | 0-30 | |
| PCB118 | 6.330 | 50.00 | 30.87 | 49 | 39.76 | 67 | 10-150 | 25 | 0-30 | |
| PCB126 | ND | 50.00 | 23.58 | 47 | 30.68 | 61 | 10-150 | 26 | 0-30 | |
| PCB128 | 1.378 | 50.00 | 23.44 | 44 | 29.94 | 57 | 10-150 | 24 | 0-30 | |
| PCB170 | 3.118 | 50.00 | 25.08 | 44 | 28.19 | 50 | 10-150 | 12 | 0-30 | |
| PCB180 | 8.401 | 50.00 | 26.81 | 37 | 35.44 | 54 | 10-150 | 28 | 0-30 | |
| PCB187 | 8.193 | 50.00 | 29.16 | 42 | 37.84 | 59 | 10-150 | 26 | 0-30 | |
| PCB206 | 0.5423 | 50.00 | 27.09 | 53 | 30.27 | 59 | 10-150 | 11 | 0-30 | |

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RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - Sample Duplicate

| | | |
|--|----------------|-----------------|
| ANCHOR QEA, LLC | Date Received: | 10/15/14 |
| 27201 Puerta Real, Suite 350 | Work Order: | 14-10-1157 |
| Mission Viejo, CA 92691-8306 | Preparation: | N/A |
| | Method: | ASTM D-2216 (M) |
| Project: GWMA - TMDL Compliance Monitoring | | Page 1 of 2 |

| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | Duplicate Batch Number |
|---------------------------|------------------|--------|------------|----------------|----------------|------------------------|
| CS-FF-WC-C1-20141015 | Sample | Tissue | N/A | 10/15/14 00:00 | 10/16/14 10:40 | E1016MOID2 |
| CS-FF-WC-C1-20141015 | Sample Duplicate | Tissue | N/A | 10/15/14 00:00 | 10/16/14 10:40 | E1016MOID2 |

| <u>Parameter</u> | <u>Sample Conc.</u> | <u>DUP Conc.</u> | <u>RPD</u> | <u>RPD CL</u> | <u>Qualifiers</u> |
|------------------|---------------------|------------------|------------|---------------|-------------------|
| Moisture | 76.80 | 76.70 | 0 | 0-10 | |

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RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - Sample Duplicate

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 10/15/14
 Work Order: 14-10-1157
 Preparation: EPA 3541
 Method: MeCl2 Ext. (NOAA 1993a)

Project: GWMA - TMDL Compliance Monitoring

Page 2 of 2

| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | Duplicate Batch Number |
|-----------------------------|-------------------------|---------------|----------------|-----------------------|-----------------------|------------------------|
| CS-FF-WC-C3-20141015 | Sample | Tissue | B03/B13 | 10/17/14 00:00 | 10/17/14 00:00 | 141017D08 |
| CS-FF-WC-C3-20141015 | Sample Duplicate | Tissue | B03/B13 | 10/17/14 00:00 | 10/17/14 00:00 | 141017D08 |

| <u>Parameter</u> | <u>Sample Conc.</u> | <u>DUP Conc.</u> | <u>RPD</u> | <u>RPD CL</u> | <u>Qualifiers</u> |
|------------------|---------------------|------------------|------------|---------------|-------------------|
| % Lipids | 3.150 | 3.170 | 1 | 0-25 | |

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RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - LCS/LCSD

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 10/15/14
Work Order: 14-10-1157
Preparation: EPA 3541
Method: EPA 8270C PEST-SIM

Project: GWMA - TMDL Compliance Monitoring

Page 1 of 2

| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | LCS/LCSD Batch Number | | | |
|---------------------------|-------------|-----------|------------|---------------|----------------|-----------------------|-----|--------|------------|
| 099-16-514-4 | LCS | Tissue | GC/MS NNN | 10/17/14 | 11/13/14 14:43 | 141017L08M | | | |
| 099-16-514-4 | LCSD | Tissue | GC/MS NNN | 10/17/14 | 11/13/14 15:01 | 141017L08M | | | |
| Parameter | Spike Added | LCS Conc. | LCS %Rec. | LCSD Conc. | LCSD %Rec. | %Rec. CL | RPD | RPD CL | Qualifiers |
| Alpha Chlordane | 5.000 | 2.275 | 45 | 2.207 | 44 | 10-150 | 3 | 0-30 | |
| 4,4'-DDD | 5.000 | 2.437 | 49 | 2.390 | 48 | 10-150 | 2 | 0-30 | |
| 4,4'-DDE | 5.000 | 2.398 | 48 | 2.494 | 50 | 10-150 | 4 | 0-30 | |
| 4,4'-DDT | 5.000 | 2.356 | 47 | 1.909 | 38 | 10-150 | 21 | 0-30 | |
| Dieldrin | 5.000 | 5.696 | 114 | 5.125 | 102 | 10-150 | 11 | 0-30 | |
| Gamma Chlordane | 5.000 | 2.349 | 47 | 2.286 | 46 | 10-150 | 3 | 0-30 | |

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RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - LCS/LCSD

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 10/15/14
Work Order: 14-10-1157
Preparation: EPA 3541
Method: EPA 8270C SIM PCB Congeners

Project: GWMA - TMDL Compliance Monitoring

Page 2 of 2

| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | LCS/LCSD Batch Number | | | | |
|---------------------------|-------------|-----------|------------|---------------|----------------|-----------------------|-------|-----|--------|------------|
| 099-16-504-4 | LCS | Tissue | GC/MS NNN | 10/17/14 | 10/21/14 19:52 | 141017L08 | | | | |
| 099-16-504-4 | LCSD | Tissue | GC/MS NNN | 10/17/14 | 10/21/14 20:15 | 141017L08 | | | | |
| Parameter | Spike Added | LCS Conc. | LCS %Rec. | LCSD Conc. | LCSD %Rec. | %Rec. CL | ME CL | RPD | RPD CL | Qualifiers |
| PCB018 | 50.00 | 31.12 | 62 | 25.43 | 51 | 10-150 | 0-173 | 20 | 0-30 | |
| PCB028 | 50.00 | 32.50 | 65 | 26.23 | 52 | 10-150 | 0-173 | 21 | 0-30 | |
| PCB044 | 50.00 | 31.64 | 63 | 25.03 | 50 | 10-150 | 0-173 | 23 | 0-30 | |
| PCB052 | 50.00 | 30.28 | 61 | 23.98 | 48 | 10-150 | 0-173 | 23 | 0-30 | |
| PCB066 | 50.00 | 31.22 | 62 | 24.47 | 49 | 10-150 | 0-173 | 24 | 0-30 | |
| PCB077 | 50.00 | 36.11 | 72 | 26.83 | 54 | 10-150 | 0-173 | 29 | 0-30 | |
| PCB101 | 50.00 | 31.66 | 63 | 24.47 | 49 | 10-150 | 0-173 | 26 | 0-30 | |
| PCB105 | 50.00 | 36.47 | 73 | 26.95 | 54 | 10-150 | 0-173 | 30 | 0-30 | |
| PCB118 | 50.00 | 36.31 | 73 | 27.76 | 56 | 10-150 | 0-173 | 27 | 0-30 | |
| PCB126 | 50.00 | 35.59 | 71 | 26.12 | 52 | 10-150 | 0-173 | 31 | 0-30 | X |
| PCB128 | 50.00 | 32.38 | 65 | 23.87 | 48 | 10-150 | 0-173 | 30 | 0-30 | |
| PCB170 | 50.00 | 26.50 | 53 | 23.70 | 47 | 10-150 | 0-173 | 11 | 0-30 | |
| PCB180 | 50.00 | 31.31 | 63 | 22.37 | 45 | 10-150 | 0-173 | 33 | 0-30 | X |
| PCB187 | 50.00 | 33.05 | 66 | 24.65 | 49 | 10-150 | 0-173 | 29 | 0-30 | |
| PCB206 | 50.00 | 32.40 | 65 | 27.43 | 55 | 10-150 | 0-173 | 17 | 0-30 | |

Total number of LCS compounds: 15

Total number of ME compounds: 0

Total number of ME compounds allowed: 1

LCS ME CL validation result: Pass

RPD: Relative Percent Difference. CL: Control Limits

Glossary of Terms and Qualifiers

Work Order: 14-10-1157

Page 1 of 1

| <u>Qualifiers</u> | <u>Definition</u> |
|-------------------|--|
| * | See applicable analysis comment. |
| < | Less than the indicated value. |
| > | Greater than the indicated value. |
| 1 | Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification. |
| 2 | Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification. |
| 3 | Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control. |
| 4 | The MS/MSD RPD was out of control due to suspected matrix interference. |
| 5 | The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference. |
| 6 | Surrogate recovery below the acceptance limit. |
| 7 | Surrogate recovery above the acceptance limit. |
| B | Analyte was present in the associated method blank. |
| BU | Sample analyzed after holding time expired. |
| BV | Sample received after holding time expired. |
| E | Concentration exceeds the calibration range. |
| ET | Sample was extracted past end of recommended max. holding time. |
| HD | The chromatographic pattern was inconsistent with the profile of the reference fuel standard. |
| HDH | The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected). |
| HDL | The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected). |
| J | Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated. |
| JA | Analyte positively identified but quantitation is an estimate. |
| ME | LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean). |
| ND | Parameter not detected at the indicated reporting limit. |
| Q | Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater. |
| SG | The sample extract was subjected to Silica Gel treatment prior to analysis. |
| X | % Recovery and/or RPD out-of-range. |
| Z | Analyte presence was not confirmed by second column or GC/MS analysis. |
| | Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis. |

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of ≤ 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

Chain of Custody Record & Laboratory Analysis Request

| Line | Field Sample ID | Collection Date/Time | Matrix | No. of Containers | | | | | Test Parameters | | | | | Comments/Preservation |
|------|----------------------|----------------------|--------|-------------------|------------|---------------|---------------------------|---------|-----------------|--|--|--|--|--|
| | | | | % Lipids | % Moisture | PCB Congeners | Organochlorine Pesticides | Archive | | | | | | |
| 1 | CS-FF-WC-C1-20141015 | 10/15/14 / 1130 | Fish | 1 | X | X | X | X | X | | | | | Fillet ? composite skin off Fillets |
| 2 | CS-FF-WC-C2-20141015 | ↓ | Fish | 1 | X | X | X | X | X | | | | | Fillet ? composite skin off Fillets |
| 3 | CS-FF-WC-C3-20141015 | ↘ | Fish | 1 | X | X | X | X | X | | | | | Fillet ? composite skin off Fillets |
| 4 | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | |

- For halibut and croaker, skin-off fillets from fish within a labeled bag should be composited. Do not include ribs and stomach tissue in the fillet.
- For white perch and pacific pompano, whole fish within a labeled bag should be composited (this differs from the SAP) due to the lack of mass necessary for analysis of fillet composites.
- When creating a composite, composite ALL individuals (or their fillets- see above for details) included in a labeled composite sample bag and ensure that each sample has been homogenized to a consistent color and texture prior to subsampling for analyses. After subsampling, freeze (to at least -20°C) and archive the remaining homogenized tissue from each composite. Please contact Anchor QEA prior to disposal of archived, frozen tissue homogenates or frozen tissue archives.

| | |
|---------------------------------------|-----------------------------|
| Relinquished By: <i>Bonnie Ahe</i> | Anchor QEA |
| Signature/Printed Name | Date/Time 10/15/14 1130 |
| Received By: | Company: <i>ELZ</i> |
| Signature/Printed Name | Date/Time 10/15/14 11:30 |
| Received By: | Company: |
| Signature/Printed Name | Date/Time |

Calscience

WORK ORDER #: **14-10-1157**

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: Anchor QEA

DATE: 10/15/14

TEMPERATURE: Thermometer ID: SC2 (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Temperature -4.3 °C - 0.2°C (CF) = -4.5 °C Blank Sample

Sample(s) outside temperature criteria (PM/APM contacted by: _____)

Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: Air Filter

Checked by: 689

CUSTODY SEALS INTACT:

Cooler _____ No (Not Intact) Not Present N/A

Checked by: 689

Sample _____ No (Not Intact) Not Present

Checked by: 689

SAMPLE CONDITION:

| | Yes | No | N/A |
|---|-------------------------------------|--------------------------|-------------------------------------|
| Chain-Of-Custody (COC) document(s) received with samples..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| COC document(s) received complete..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> Collection date/time, matrix, and/or # of containers logged in based on sample labels. <input type="checkbox"/> No analysis requested. <input type="checkbox"/> Not relinquished. <input type="checkbox"/> No date/time relinquished. | | | |
| Sampler's name indicated on COC..... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Sample container label(s) consistent with COC..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Sample container(s) intact and good condition..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Proper containers and sufficient volume for analyses requested..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Analyses received within holding time..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Aqueous samples received within 15-minute holding time | | | |
| <input type="checkbox"/> pH <input type="checkbox"/> Residual Chlorine <input type="checkbox"/> Dissolved Sulfides <input type="checkbox"/> Dissolved Oxygen..... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Proper preservation noted on COC or sample container..... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> Unpreserved vials received for Volatiles analysis | | | |
| Volatile analysis container(s) free of headspace..... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Tedlar bag(s) free of condensation..... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

CONTAINER TYPE:

Solid: 4ozCGJ 8ozCGJ 16ozCGJ Sleeve (____) EnCores® TerraCores® z

Aqueous: VOA VOAh VOAna₂ 125AGB 125AGBh 125AGBp 1AGB 1AGBna₂ 1AGBs

500AGB 500AGJ 500AGJs 250AGB 250CGB 250CGBs 1PB 1PBna 500PB

250PB 250PBn 125PB 125PBz_{na} 100PJ 100PJna₂ _____ _____ _____

Air: Tedlar® Canister Other: _____ Trip Blank Lot#: _____ Labeled/Checked by: 689

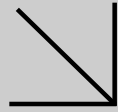
Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope Reviewed by: 300

Preservative: h: HCL n: HNO₃ na₂:Na₂S₂O₃ na: NaOH p: H₃PO₄ s: H₂SO₄ u: Ultra-pure z_{na}: ZnAc₂+NaOH f: Filtered Scanned by: 300

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WORK ORDER NUMBER: 14-10-0602

The difference is service



AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: ANCHOR QEA, LLC

Client Project Name: GWMA - TMDL Compliance Monitoring

Attention: Andy Martin

27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Approved for release on 11/21/2014 by:
Danielle Gonsman
Project Manager

ResultLink ▶

Email your PM ▶



Eurofins Calscience, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

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Client Project Name: GWMA - TMDL Compliance Monitoring
 Work Order Number: 14-10-0602

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CASE NARRATIVE
Eurofins Calscience Work Order No.: 14-10-0602
Project: TMDL Compliance Monitoring

Provided below is a narrative of our analytical effort, including any unique features or anomalies encountered as part of the analysis of the tissue samples.

Sample Condition on Receipt

Sixty-nine tissue samples were received on 29 September, 2014, and fifty-seven tissue samples were received on 30 September, 2014 (under ECI WO No. 14-09-2314 and 14-09-2442). The samples were transferred to the laboratory in an ice-chest on ice, following strict chain-of-custody (COC) procedures. The temperature of the samples upon receipt at the laboratory ranged from 3.3-3.6°C. All samples were given laboratory identification numbers and held in freezers pending further instructions. On 8 October, 2014, the samples were re-labeled and logged into the Laboratory Information Management System (LIMS) based on the compositing instructions provided by the client.

Tests Performed

Percent Moisture by ASTM D-2216 (M)
Chlorinated Pesticides by EPA 8270C SIM
Toxaphene by EPA 8081A
PCB Congeners by EPA 8270C SIM
Percent Lipids by MeCl₂/NOAA 1993a

Data Summary

All samples were homogenized prior to preparation and analysis.

Holding times

All holding times were met.

Calibration

Frequency and control criteria for initial and continuing calibration verifications were met.

Reporting Limits

All Method Detection Limits were met. The results were evaluated to the MDL, and where applicable, "J" flags were reported.

Method Blanks

Concentrations of target analytes in the method blank were found to be below reporting limits for all testing.

Laboratory Control Samples

A Laboratory Control Sample (LCS) analysis was performed at the required frequencies, and unless otherwise noted, all parameters were within the established control limits.

For QC Batch # 141011L04M, the Alpha Chlordane LCS recovery was below the 50-150% criteria specified in the SAP. However, the recovery was within ECI's control limits. In addition, an LCSD was performed and the Alpha Chlordane recovery was within the 50-150% control limits.

Matrix Spikes

Matrix spike analyses were performed for each applicable analysis on project samples as sample volume allowed. All parameters for the project sample matrix spikes were within the established control limits unless otherwise noted.

The MS, MSD and/or RPDs for one or more EPA 8270C SIM Pesticide analytes (in all QC batches) were outside the 50-150% control limits specified in the project SAP. In addition, one or more MS, MSD and/or RPD values were outside ECI's control limits in QC Batches 141116L01 and 141011L04. The results have been flagged with the appropriate qualifiers and are released with no further action since the LCS recoveries were within the control limits.

Several of the PCB Congener MSD and RPDs were outside the 50-150% control limits in QC Batch 141010S26. Since the LCS/LCSDs were in control, the results are released with no further action.

Surrogates

Surrogate recoveries for all applicable tests and samples were within the established control limits.

Acronyms

LCS - Laboratory Control Sample
MS/MSD- Matrix Spike/Matrix Spike Duplicate
RPD- Relative Percent Difference

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 10/08/14. They were assigned to Work Order 14-10-0602.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of ≤ 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

New York NELAP air certification does not certify for all reported methods and analytes, reference the accredited items here: http://www.calscience.com/PDF/New_York.pdf

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.



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Sample Summary

| | | |
|------------------------------|-----------------------|-----------------------------------|
| Client: ANCHOR QEA, LLC | Work Order: | 14-10-0602 |
| 27201 Puerta Real, Suite 350 | Project Name: | GWMA - TMDL Compliance Monitoring |
| Mission Viejo, CA 92691-8306 | PO Number: | |
| | Date/Time Received: | 10/08/14 13:00 |
| | Number of Containers: | 27 |

Attn: Andy Martin

| Sample Identification | Lab Number | Collection Date and Time | Number of Containers | Matrix |
|-----------------------|---------------|--------------------------|----------------------|--------|
| CP-FF-CH-C1-20141008 | 14-10-0602-1 | 10/08/14 11:37 | 1 | Tissue |
| CP-FF-CH-C2-20141008 | 14-10-0602-2 | 10/08/14 11:37 | 1 | Tissue |
| CP-FF-CH-C3-20141008 | 14-10-0602-3 | 10/08/14 11:37 | 1 | Tissue |
| CP-FF-WC-C1-20141008 | 14-10-0602-4 | 10/08/14 11:26 | 1 | Tissue |
| CP-FF-WC-C2-20141008 | 14-10-0602-5 | 10/08/14 11:26 | 1 | Tissue |
| CP-FF-WC-C3-20141008 | 14-10-0602-6 | 10/08/14 11:26 | 1 | Tissue |
| CP-WO-WS-C1-20141008 | 14-10-0602-7 | 10/08/14 11:14 | 1 | Tissue |
| CP-WO-WS-C2-20141008 | 14-10-0602-8 | 10/08/14 11:14 | 1 | Tissue |
| CP-WO-WS-C3-20141008 | 14-10-0602-9 | 10/08/14 11:14 | 1 | Tissue |
| SP-FF-CH-C1-20141008 | 14-10-0602-10 | 10/08/14 12:10 | 1 | Tissue |
| SP-FF-CH-C2-20141008 | 14-10-0602-11 | 10/08/14 12:10 | 1 | Tissue |
| SP-FF-CH-C3-20141008 | 14-10-0602-12 | 10/08/14 12:10 | 1 | Tissue |
| SP-WO-PP-C1-20141008 | 14-10-0602-13 | 10/08/14 12:19 | 1 | Tissue |
| SP-WO-PP-C2-20141008 | 14-10-0602-14 | 10/08/14 12:19 | 1 | Tissue |
| SP-WO-PP-C3-20141008 | 14-10-0602-15 | 10/08/14 12:19 | 1 | Tissue |
| SP-FF-WC-C1-20141008 | 14-10-0602-16 | 10/08/14 12:26 | 1 | Tissue |
| SP-FF-WC-C2-20141008 | 14-10-0602-17 | 10/08/14 12:26 | 1 | Tissue |
| SP-FF-WC-C3-20141008 | 14-10-0602-18 | 10/08/14 12:26 | 1 | Tissue |
| OB-FF-CH-C1-20141008 | 14-10-0602-19 | 10/08/14 12:03 | 1 | Tissue |
| OB-FF-CH-C2-20141008 | 14-10-0602-20 | 10/08/14 12:03 | 1 | Tissue |
| OB-FF-CH-C3-20141008 | 14-10-0602-21 | 10/08/14 12:03 | 1 | Tissue |
| OB-FF-WC-C1-20141008 | 14-10-0602-22 | 10/08/14 11:46 | 1 | Tissue |
| OB-FF-WC-C2-20141008 | 14-10-0602-23 | 10/08/14 11:46 | 1 | Tissue |
| OB-FF-WC-C3-20141008 | 14-10-0602-24 | 10/08/14 11:46 | 1 | Tissue |
| OB-WO-WS-C1-20141008 | 14-10-0602-25 | 10/08/14 11:52 | 1 | Tissue |
| OB-WO-WS-C2-20141008 | 14-10-0602-26 | 10/08/14 11:52 | 1 | Tissue |
| OB-WO-WS-C3-20141008 | 14-10-0602-27 | 10/08/14 11:52 | 1 | Tissue |


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Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 10/08/14
Work Order: 14-10-0602
Preparation: N/A
Method: ASTM D-2216 (M)
Units: %

Project: GWMA - TMDL Compliance Monitoring

Page 1 of 4

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------------|
| CP-FF-CH-C1-20141008 | 14-10-0602-1-AA | 10/08/14 11:37 | Tissue | N/A | 10/13/14 | 10/13/14 16:40 | E1013MOIB1 |
| <u>Parameter</u> | | <u>Result</u> | <u>RL</u> | | <u>DF</u> | | <u>Qualifiers</u> |
| Moisture | | 76.3 | 0.100 | | 1.00 | | |
| CP-FF-CH-C2-20141008 | 14-10-0602-2-AA | 10/08/14 11:37 | Tissue | N/A | 10/13/14 | 10/13/14 16:40 | E1013MOIB1 |
| <u>Parameter</u> | | <u>Result</u> | <u>RL</u> | | <u>DF</u> | | <u>Qualifiers</u> |
| Moisture | | 77.6 | 0.100 | | 1.00 | | |
| CP-FF-CH-C3-20141008 | 14-10-0602-3-AA | 10/08/14 11:37 | Tissue | N/A | 10/13/14 | 10/13/14 16:40 | E1013MOIB1 |
| <u>Parameter</u> | | <u>Result</u> | <u>RL</u> | | <u>DF</u> | | <u>Qualifiers</u> |
| Moisture | | 77.5 | 0.100 | | 1.00 | | |
| CP-FF-WC-C1-20141008 | 14-10-0602-4-AA | 10/08/14 11:26 | Tissue | N/A | 10/13/14 | 10/13/14 16:40 | E1013MOIB1 |
| <u>Parameter</u> | | <u>Result</u> | <u>RL</u> | | <u>DF</u> | | <u>Qualifiers</u> |
| Moisture | | 73.9 | 0.100 | | 1.00 | | |
| CP-FF-WC-C2-20141008 | 14-10-0602-5-AA | 10/08/14 11:26 | Tissue | N/A | 10/13/14 | 10/13/14 16:40 | E1013MOIB1 |
| <u>Parameter</u> | | <u>Result</u> | <u>RL</u> | | <u>DF</u> | | <u>Qualifiers</u> |
| Moisture | | 75.0 | 0.100 | | 1.00 | | |
| CP-FF-WC-C3-20141008 | 14-10-0602-6-AA | 10/08/14 11:26 | Tissue | N/A | 10/13/14 | 10/13/14 16:40 | E1013MOIB1 |
| <u>Parameter</u> | | <u>Result</u> | <u>RL</u> | | <u>DF</u> | | <u>Qualifiers</u> |
| Moisture | | 76.0 | 0.100 | | 1.00 | | |
| CP-WO-WS-C1-20141008 | 14-10-0602-7-AA | 10/08/14 11:14 | Tissue | N/A | 10/13/14 | 10/13/14 16:40 | E1013MOIB1 |
| <u>Parameter</u> | | <u>Result</u> | <u>RL</u> | | <u>DF</u> | | <u>Qualifiers</u> |
| Moisture | | 76.4 | 0.100 | | 1.00 | | |
| CP-WO-WS-C2-20141008 | 14-10-0602-8-AA | 10/08/14 11:14 | Tissue | N/A | 10/13/14 | 10/13/14 16:40 | E1013MOIB1 |
| <u>Parameter</u> | | <u>Result</u> | <u>RL</u> | | <u>DF</u> | | <u>Qualifiers</u> |
| Moisture | | 76.9 | 0.100 | | 1.00 | | |

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 10/08/14
Work Order: 14-10-0602
Preparation: N/A
Method: ASTM D-2216 (M)
Units: %

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|-----------|------------|---------------|--------------------|-------------------|
| CP-WO-WS-C3-20141008 | 14-10-0602-9-AA | 10/08/14 11:14 | Tissue | N/A | 10/13/14 | 10/13/14 16:40 | E1013MOIB1 |
| <u>Parameter</u> | | <u>Result</u> | <u>RL</u> | | <u>DF</u> | | <u>Qualifiers</u> |
| Moisture | | 77.3 | 0.100 | | 1.00 | | |
| SP-FF-CH-C1-20141008 | 14-10-0602-10-AA | 10/08/14 12:10 | Tissue | N/A | 10/13/14 | 10/13/14 16:40 | E1013MOIB1 |
| <u>Parameter</u> | | <u>Result</u> | <u>RL</u> | | <u>DF</u> | | <u>Qualifiers</u> |
| Moisture | | 78.0 | 0.100 | | 1.00 | | |
| SP-FF-CH-C2-20141008 | 14-10-0602-11-AA | 10/08/14 12:10 | Tissue | N/A | 10/13/14 | 10/13/14 16:40 | E1013MOIB1 |
| <u>Parameter</u> | | <u>Result</u> | <u>RL</u> | | <u>DF</u> | | <u>Qualifiers</u> |
| Moisture | | 78.1 | 0.100 | | 1.00 | | |
| SP-FF-CH-C3-20141008 | 14-10-0602-12-AA | 10/08/14 12:10 | Tissue | N/A | 10/13/14 | 10/13/14 16:40 | E1013MOIB1 |
| <u>Parameter</u> | | <u>Result</u> | <u>RL</u> | | <u>DF</u> | | <u>Qualifiers</u> |
| Moisture | | 78.3 | 0.100 | | 1.00 | | |
| SP-WO-PP-C1-20141008 | 14-10-0602-13-AA | 10/08/14 12:19 | Tissue | N/A | 10/13/14 | 10/13/14 16:40 | E1013MOIB1 |
| <u>Parameter</u> | | <u>Result</u> | <u>RL</u> | | <u>DF</u> | | <u>Qualifiers</u> |
| Moisture | | 70.7 | 0.100 | | 1.00 | | |
| SP-WO-PP-C2-20141008 | 14-10-0602-14-AA | 10/08/14 12:19 | Tissue | N/A | 10/13/14 | 10/13/14 16:40 | E1013MOIB1 |
| <u>Parameter</u> | | <u>Result</u> | <u>RL</u> | | <u>DF</u> | | <u>Qualifiers</u> |
| Moisture | | 75.5 | 0.100 | | 1.00 | | |
| SP-WO-PP-C3-20141008 | 14-10-0602-15-AA | 10/08/14 12:19 | Tissue | N/A | 10/13/14 | 10/13/14 16:40 | E1013MOIB1 |
| <u>Parameter</u> | | <u>Result</u> | <u>RL</u> | | <u>DF</u> | | <u>Qualifiers</u> |
| Moisture | | 80.5 | 0.100 | | 1.00 | | |
| SP-FF-WC-C1-20141008 | 14-10-0602-16-AA | 10/08/14 12:26 | Tissue | N/A | 10/13/14 | 10/13/14 16:40 | E1013MOIB1 |
| <u>Parameter</u> | | <u>Result</u> | <u>RL</u> | | <u>DF</u> | | <u>Qualifiers</u> |
| Moisture | | 76.7 | 0.100 | | 1.00 | | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 10/08/14
Work Order: 14-10-0602
Preparation: N/A
Method: ASTM D-2216 (M)
Units: %

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------------|-------------------------|---------------------------|---------------|------------|-----------------|---------------------------|-------------------|
| SP-FF-WC-C2-20141008 | 14-10-0602-17-AA | 10/08/14 12:26 | Tissue | N/A | 10/13/14 | 10/13/14 16:40 | E1013MOIB1 |
| <u>Parameter</u> | | <u>Result</u> | <u>RL</u> | | <u>DF</u> | | <u>Qualifiers</u> |
| Moisture | | 77.7 | 0.100 | | 1.00 | | |
| SP-FF-WC-C3-20141008 | 14-10-0602-18-AA | 10/08/14 12:26 | Tissue | N/A | 10/13/14 | 10/13/14 16:40 | E1013MOIB1 |
| <u>Parameter</u> | | <u>Result</u> | <u>RL</u> | | <u>DF</u> | | <u>Qualifiers</u> |
| Moisture | | 76.0 | 0.100 | | 1.00 | | |
| OB-FF-CH-C1-20141008 | 14-10-0602-19-AA | 10/08/14 12:03 | Tissue | N/A | 10/13/14 | 10/13/14 16:40 | E1013MOIB1 |
| <u>Parameter</u> | | <u>Result</u> | <u>RL</u> | | <u>DF</u> | | <u>Qualifiers</u> |
| Moisture | | 76.8 | 0.100 | | 1.00 | | |
| OB-FF-CH-C2-20141008 | 14-10-0602-20-AA | 10/08/14 12:03 | Tissue | N/A | 10/13/14 | 10/13/14 16:40 | E1013MOIB1 |
| <u>Parameter</u> | | <u>Result</u> | <u>RL</u> | | <u>DF</u> | | <u>Qualifiers</u> |
| Moisture | | 78.5 | 0.100 | | 1.00 | | |
| OB-FF-CH-C3-20141008 | 14-10-0602-21-AA | 10/08/14 12:03 | Tissue | N/A | 10/13/14 | 10/13/14 17:00 | E1013MOIB2 |
| <u>Parameter</u> | | <u>Result</u> | <u>RL</u> | | <u>DF</u> | | <u>Qualifiers</u> |
| Moisture | | 78.8 | 0.100 | | 1.00 | | |
| OB-FF-WC-C1-20141008 | 14-10-0602-22-AA | 10/08/14 11:46 | Tissue | N/A | 10/13/14 | 10/13/14 17:00 | E1013MOIB2 |
| <u>Parameter</u> | | <u>Result</u> | <u>RL</u> | | <u>DF</u> | | <u>Qualifiers</u> |
| Moisture | | 77.2 | 0.100 | | 1.00 | | |
| OB-FF-WC-C2-20141008 | 14-10-0602-23-AA | 10/08/14 11:46 | Tissue | N/A | 10/13/14 | 10/13/14 17:00 | E1013MOIB2 |
| <u>Parameter</u> | | <u>Result</u> | <u>RL</u> | | <u>DF</u> | | <u>Qualifiers</u> |
| Moisture | | 75.8 | 0.100 | | 1.00 | | |
| OB-FF-WC-C3-20141008 | 14-10-0602-24-AA | 10/08/14 11:46 | Tissue | N/A | 10/13/14 | 10/13/14 17:00 | E1013MOIB2 |
| <u>Parameter</u> | | <u>Result</u> | <u>RL</u> | | <u>DF</u> | | <u>Qualifiers</u> |
| Moisture | | 74.9 | 0.100 | | 1.00 | | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 10/08/14
Work Order: 14-10-0602
Preparation: N/A
Method: ASTM D-2216 (M)
Units: %

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------------|-------------------------|---------------------------|---------------|------------|-----------------|---------------------------|-------------------|
| OB-WO-WS-C1-20141008 | 14-10-0602-25-AA | 10/08/14 11:52 | Tissue | N/A | 10/13/14 | 10/13/14 17:00 | E1013MOIB2 |
| <u>Parameter</u> | | <u>Result</u> | <u>RL</u> | | <u>DF</u> | | <u>Qualifiers</u> |
| Moisture | | 71.7 | 0.100 | | 1.00 | | |
| OB-WO-WS-C2-20141008 | 14-10-0602-26-AA | 10/08/14 11:52 | Tissue | N/A | 10/13/14 | 10/13/14 17:00 | E1013MOIB2 |
| <u>Parameter</u> | | <u>Result</u> | <u>RL</u> | | <u>DF</u> | | <u>Qualifiers</u> |
| Moisture | | 72.2 | 0.100 | | 1.00 | | |
| OB-WO-WS-C3-20141008 | 14-10-0602-27-AA | 10/08/14 11:52 | Tissue | N/A | 10/13/14 | 10/13/14 17:00 | E1013MOIB2 |
| <u>Parameter</u> | | <u>Result</u> | <u>RL</u> | | <u>DF</u> | | <u>Qualifiers</u> |
| Moisture | | 76.4 | 0.100 | | 1.00 | | |
| Method Blank | 099-05-014-4933 | N/A | Solid | N/A | 10/13/14 | 10/13/14 16:40 | E1013MOIB1 |
| <u>Parameter</u> | | <u>Result</u> | <u>RL</u> | | <u>DF</u> | | <u>Qualifiers</u> |
| Moisture | | ND | 0.100 | | 1.00 | | |
| Method Blank | 099-05-014-4934 | N/A | Solid | N/A | 10/13/14 | 10/13/14 17:00 | E1013MOIB2 |
| <u>Parameter</u> | | <u>Result</u> | <u>RL</u> | | <u>DF</u> | | <u>Qualifiers</u> |
| Moisture | | ND | 0.100 | | 1.00 | | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 10/08/14
Work Order: 14-10-0602
Preparation: EPA 3541
Method: EPA 8081A
Units: ug/kg

Project: GWMA - TMDL Compliance Monitoring

Page 1 of 8

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| CP-FF-CH-C1-20141008 | 14-10-0602-1-AA | 10/08/14 11:37 | Tissue | GC 63 | 10/10/14 | 10/22/14 15:57 | 141010L26 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|-----|------|------|------------|
| Toxaphene | ND | 5.0 | 0.61 | 1.00 | |

| Surrogate | Rec. (%) | Control Limits | Qualifiers |
|------------------------------|----------|----------------|------------|
| Dibutylchloroendate | 105 | 10-150 | |
| 2,4,5,6-Tetrachloro-m-Xylene | 96 | 10-150 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| CP-FF-CH-C2-20141008 | 14-10-0602-2-AA | 10/08/14 11:37 | Tissue | GC 63 | 10/10/14 | 10/22/14 16:11 | 141010L26 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|-----|------|------|------------|
| Toxaphene | ND | 5.0 | 0.61 | 1.00 | |

| Surrogate | Rec. (%) | Control Limits | Qualifiers |
|------------------------------|----------|----------------|------------|
| Dibutylchloroendate | 87 | 10-150 | |
| 2,4,5,6-Tetrachloro-m-Xylene | 81 | 10-150 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| CP-FF-CH-C3-20141008 | 14-10-0602-3-AA | 10/08/14 11:37 | Tissue | GC 63 | 10/10/14 | 10/22/14 16:25 | 141010L26 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|-----|------|------|------------|
| Toxaphene | ND | 5.0 | 0.61 | 1.00 | |

| Surrogate | Rec. (%) | Control Limits | Qualifiers |
|------------------------------|----------|----------------|------------|
| Dibutylchloroendate | 94 | 10-150 | |
| 2,4,5,6-Tetrachloro-m-Xylene | 72 | 10-150 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| CP-FF-WC-C1-20141008 | 14-10-0602-4-AA | 10/08/14 11:26 | Tissue | GC 63 | 10/10/14 | 10/22/14 16:39 | 141010L26 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|-----|------|------|------------|
| Toxaphene | ND | 5.0 | 0.61 | 1.00 | |

| Surrogate | Rec. (%) | Control Limits | Qualifiers |
|------------------------------|----------|----------------|------------|
| Dibutylchloroendate | 126 | 10-150 | |
| 2,4,5,6-Tetrachloro-m-Xylene | 106 | 10-150 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 10/08/14
Work Order: 14-10-0602
Preparation: EPA 3541
Method: EPA 8081A
Units: ug/kg

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| CP-FF-WC-C2-20141008 | 14-10-0602-5-AA | 10/08/14 11:26 | Tissue | GC 63 | 10/10/14 | 10/22/14 16:53 | 141010L26 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|-----|------|------|------------|
| Toxaphene | ND | 5.0 | 0.61 | 1.00 | |

| Surrogate | Rec. (%) | Control Limits | Qualifiers |
|------------------------------|----------|----------------|------------|
| Dibutylchloredate | 81 | 10-150 | |
| 2,4,5,6-Tetrachloro-m-Xylene | 73 | 10-150 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| CP-FF-WC-C3-20141008 | 14-10-0602-6-AA | 10/08/14 11:26 | Tissue | GC 63 | 10/10/14 | 10/22/14 17:07 | 141010L26 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|-----|------|------|------------|
| Toxaphene | ND | 5.0 | 0.61 | 1.00 | |

| Surrogate | Rec. (%) | Control Limits | Qualifiers |
|------------------------------|----------|----------------|------------|
| Dibutylchloredate | 124 | 10-150 | |
| 2,4,5,6-Tetrachloro-m-Xylene | 115 | 10-150 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| CP-WO-WS-C1-20141008 | 14-10-0602-7-AA | 10/08/14 11:14 | Tissue | GC 63 | 10/10/14 | 10/22/14 17:21 | 141010L26 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|-----|------|------|------------|
| Toxaphene | ND | 5.0 | 0.61 | 1.00 | |

| Surrogate | Rec. (%) | Control Limits | Qualifiers |
|------------------------------|----------|----------------|------------|
| Dibutylchloredate | 87 | 10-150 | |
| 2,4,5,6-Tetrachloro-m-Xylene | 69 | 10-150 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| CP-WO-WS-C2-20141008 | 14-10-0602-8-AA | 10/08/14 11:14 | Tissue | GC 63 | 10/10/14 | 10/23/14 02:16 | 141010L26 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|-----|------|------|------------|
| Toxaphene | ND | 5.0 | 0.61 | 1.00 | |

| Surrogate | Rec. (%) | Control Limits | Qualifiers |
|------------------------------|----------|----------------|------------|
| Dibutylchloredate | 39 | 10-150 | |
| 2,4,5,6-Tetrachloro-m-Xylene | 38 | 10-150 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 10/08/14
 Work Order: 14-10-0602
 Preparation: EPA 3541
 Method: EPA 8081A
 Units: ug/kg

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| CP-WO-WS-C3-20141008 | 14-10-0602-9-AA | 10/08/14 11:14 | Tissue | GC 63 | 10/10/14 | 10/23/14 02:30 | 141010L26 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|-----|------|------|------------|
| Toxaphene | ND | 5.0 | 0.61 | 1.00 | |

| Surrogate | Rec. (%) | Control Limits | Qualifiers |
|------------------------------|----------|----------------|------------|
| Dibutylchloroendate | 81 | 10-150 | |
| 2,4,5,6-Tetrachloro-m-Xylene | 78 | 10-150 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| SP-FF-CH-C1-20141008 | 14-10-0602-10-AA | 10/08/14 12:10 | Tissue | GC 63 | 10/10/14 | 10/23/14 02:44 | 141010L26 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|-----|------|------|------------|
| Toxaphene | ND | 5.0 | 0.61 | 1.00 | |

| Surrogate | Rec. (%) | Control Limits | Qualifiers |
|------------------------------|----------|----------------|------------|
| Dibutylchloroendate | 35 | 10-150 | |
| 2,4,5,6-Tetrachloro-m-Xylene | 54 | 10-150 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| SP-FF-CH-C2-20141008 | 14-10-0602-11-AA | 10/08/14 12:10 | Tissue | GC 63 | 10/10/14 | 10/23/14 02:58 | 141010L26 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|-----|------|------|------------|
| Toxaphene | ND | 5.0 | 0.61 | 1.00 | |

| Surrogate | Rec. (%) | Control Limits | Qualifiers |
|------------------------------|----------|----------------|------------|
| Dibutylchloroendate | 10 | 10-150 | |
| 2,4,5,6-Tetrachloro-m-Xylene | 19 | 10-150 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| SP-FF-CH-C3-20141008 | 14-10-0602-12-AA | 10/08/14 12:10 | Tissue | GC 63 | 10/10/14 | 10/23/14 03:12 | 141010L26 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|-----|------|------|------------|
| Toxaphene | ND | 5.0 | 0.61 | 1.00 | |

| Surrogate | Rec. (%) | Control Limits | Qualifiers |
|------------------------------|----------|----------------|------------|
| Dibutylchloroendate | 97 | 10-150 | |
| 2,4,5,6-Tetrachloro-m-Xylene | 104 | 10-150 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 10/08/14
Work Order: 14-10-0602
Preparation: EPA 3541
Method: EPA 8081A
Units: ug/kg

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| SP-WO-PP-C1-20141008 | 14-10-0602-13-AA | 10/08/14 12:19 | Tissue | GC 63 | 10/10/14 | 10/23/14 03:26 | 141010L26 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|-----|------|------|------------|
| Toxaphene | ND | 5.0 | 0.61 | 1.00 | |

| Surrogate | Rec. (%) | Control Limits | Qualifiers |
|------------------------------|----------|----------------|------------|
| Dibutylchloroendate | 31 | 10-150 | |
| 2,4,5,6-Tetrachloro-m-Xylene | 54 | 10-150 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| SP-WO-PP-C2-20141008 | 14-10-0602-14-AA | 10/08/14 12:19 | Tissue | GC 63 | 10/10/14 | 10/23/14 03:40 | 141010L26 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|-----|------|------|------------|
| Toxaphene | ND | 5.0 | 0.61 | 1.00 | |

| Surrogate | Rec. (%) | Control Limits | Qualifiers |
|------------------------------|----------|----------------|------------|
| Dibutylchloroendate | 74 | 10-150 | |
| 2,4,5,6-Tetrachloro-m-Xylene | 98 | 10-150 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| SP-WO-PP-C3-20141008 | 14-10-0602-15-AA | 10/08/14 12:19 | Tissue | GC 63 | 10/11/14 | 10/23/14 03:54 | 141011L04 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|-----|------|------|------------|
| Toxaphene | ND | 5.0 | 0.61 | 1.00 | |

| Surrogate | Rec. (%) | Control Limits | Qualifiers |
|------------------------------|----------|----------------|------------|
| Dibutylchloroendate | 83 | 10-150 | |
| 2,4,5,6-Tetrachloro-m-Xylene | 92 | 10-150 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| SP-FF-WC-C1-20141008 | 14-10-0602-16-AA | 10/08/14 12:26 | Tissue | GC 63 | 10/11/14 | 10/23/14 04:09 | 141011L04 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|-----|------|------|------------|
| Toxaphene | ND | 5.0 | 0.61 | 1.00 | |

| Surrogate | Rec. (%) | Control Limits | Qualifiers |
|------------------------------|----------|----------------|------------|
| Dibutylchloroendate | 143 | 10-150 | |
| 2,4,5,6-Tetrachloro-m-Xylene | 112 | 10-150 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 10/08/14
 Work Order: 14-10-0602
 Preparation: EPA 3541
 Method: EPA 8081A
 Units: ug/kg

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------------|-------------------------|---------------------------|---------------|--------------|-----------------|---------------------------|------------------|
| SP-FF-WC-C2-20141008 | 14-10-0602-17-AA | 10/08/14 12:26 | Tissue | GC 63 | 10/11/14 | 10/23/14 04:23 | 141011L04 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|-----|------|------|------------|
| Toxaphene | ND | 5.0 | 0.61 | 1.00 | |

| Surrogate | Rec. (%) | Control Limits | Qualifiers |
|------------------------------|----------|----------------|------------|
| Dibutylchloroendate | 111 | 10-150 | |
| 2,4,5,6-Tetrachloro-m-Xylene | 127 | 10-150 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------------|-------------------------|---------------------------|---------------|--------------|-----------------|---------------------------|------------------|
| SP-FF-WC-C3-20141008 | 14-10-0602-18-AA | 10/08/14 12:26 | Tissue | GC 63 | 10/11/14 | 10/23/14 04:37 | 141011L04 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|-----|------|------|------------|
| Toxaphene | ND | 5.0 | 0.61 | 1.00 | |

| Surrogate | Rec. (%) | Control Limits | Qualifiers |
|------------------------------|----------|----------------|------------|
| Dibutylchloroendate | 118 | 10-150 | |
| 2,4,5,6-Tetrachloro-m-Xylene | 93 | 10-150 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------------|-------------------------|---------------------------|---------------|--------------|-----------------|---------------------------|------------------|
| OB-FF-CH-C1-20141008 | 14-10-0602-19-AA | 10/08/14 12:03 | Tissue | GC 63 | 10/11/14 | 10/23/14 04:51 | 141011L04 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|-----|------|------|------------|
| Toxaphene | ND | 5.0 | 0.61 | 1.00 | |

| Surrogate | Rec. (%) | Control Limits | Qualifiers |
|------------------------------|----------|----------------|------------|
| Dibutylchloroendate | 98 | 10-150 | |
| 2,4,5,6-Tetrachloro-m-Xylene | 91 | 10-150 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------------|-------------------------|---------------------------|---------------|--------------|-----------------|---------------------------|------------------|
| OB-FF-CH-C2-20141008 | 14-10-0602-20-AA | 10/08/14 12:03 | Tissue | GC 63 | 10/11/14 | 10/23/14 05:05 | 141011L04 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|-----|------|------|------------|
| Toxaphene | ND | 5.0 | 0.61 | 1.00 | |

| Surrogate | Rec. (%) | Control Limits | Qualifiers |
|------------------------------|----------|----------------|------------|
| Dibutylchloroendate | 82 | 10-150 | |
| 2,4,5,6-Tetrachloro-m-Xylene | 96 | 10-150 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 10/08/14
Work Order: 14-10-0602
Preparation: EPA 3541
Method: EPA 8081A
Units: ug/kg

Project: GWMA - TMDL Compliance Monitoring

Page 6 of 8

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------------|-------------------------|---------------------------|---------------|--------------|-----------------|---------------------------|------------------|
| OB-FF-CH-C3-20141008 | 14-10-0602-21-AA | 10/08/14 12:03 | Tissue | GC 63 | 10/11/14 | 10/23/14 05:19 | 141011L04 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|-----|------|------|------------|
| Toxaphene | ND | 5.0 | 0.61 | 1.00 | |

| Surrogate | Rec. (%) | Control Limits | Qualifiers |
|------------------------------|----------|----------------|------------|
| Dibutylchloroendate | 84 | 10-150 | |
| 2,4,5,6-Tetrachloro-m-Xylene | 85 | 10-150 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------------|-------------------------|---------------------------|---------------|--------------|-----------------|---------------------------|------------------|
| OB-FF-WC-C1-20141008 | 14-10-0602-22-AA | 10/08/14 11:46 | Tissue | GC 63 | 10/11/14 | 10/23/14 05:33 | 141011L04 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|-----|------|------|------------|
| Toxaphene | ND | 5.0 | 0.61 | 1.00 | |

| Surrogate | Rec. (%) | Control Limits | Qualifiers |
|------------------------------|----------|----------------|------------|
| Dibutylchloroendate | 126 | 10-150 | |
| 2,4,5,6-Tetrachloro-m-Xylene | 89 | 10-150 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------------|-------------------------|---------------------------|---------------|--------------|-----------------|---------------------------|------------------|
| OB-FF-WC-C2-20141008 | 14-10-0602-23-AA | 10/08/14 11:46 | Tissue | GC 63 | 10/11/14 | 10/23/14 05:47 | 141011L04 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|-----|------|------|------------|
| Toxaphene | ND | 5.0 | 0.61 | 1.00 | |

| Surrogate | Rec. (%) | Control Limits | Qualifiers |
|------------------------------|----------|----------------|------------|
| Dibutylchloroendate | 144 | 10-150 | |
| 2,4,5,6-Tetrachloro-m-Xylene | 121 | 10-150 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------------|-------------------------|---------------------------|---------------|--------------|-----------------|---------------------------|------------------|
| OB-FF-WC-C3-20141008 | 14-10-0602-24-AA | 10/08/14 11:46 | Tissue | GC 63 | 10/11/14 | 10/23/14 06:02 | 141011L04 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|-----|------|------|------------|
| Toxaphene | ND | 5.0 | 0.61 | 1.00 | |

| Surrogate | Rec. (%) | Control Limits | Qualifiers |
|------------------------------|----------|----------------|------------|
| Dibutylchloroendate | 134 | 10-150 | |
| 2,4,5,6-Tetrachloro-m-Xylene | 102 | 10-150 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 10/08/14
Work Order: 14-10-0602
Preparation: EPA 3541
Method: EPA 8081A
Units: ug/kg

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------------|-------------------------|---------------------------|---------------|--------------|-----------------|---------------------------|------------------|
| OB-WO-WS-C1-20141008 | 14-10-0602-25-AA | 10/08/14 11:52 | Tissue | GC 63 | 10/11/14 | 10/23/14 06:16 | 141011L04 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|-----|------|------|------------|
| Toxaphene | ND | 5.0 | 0.61 | 1.00 | |

| Surrogate | Rec. (%) | Control Limits | Qualifiers |
|------------------------------|----------|----------------|------------|
| Dibutylchloroendate | 148 | 10-150 | |
| 2,4,5,6-Tetrachloro-m-Xylene | 114 | 10-150 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------------|-------------------------|---------------------------|---------------|--------------|-----------------|---------------------------|------------------|
| OB-WO-WS-C2-20141008 | 14-10-0602-26-AA | 10/08/14 11:52 | Tissue | GC 63 | 10/11/14 | 10/23/14 06:30 | 141011L04 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|-----|------|------|------------|
| Toxaphene | ND | 5.0 | 0.61 | 1.00 | |

| Surrogate | Rec. (%) | Control Limits | Qualifiers |
|------------------------------|----------|----------------|------------|
| Dibutylchloroendate | 96 | 10-150 | |
| 2,4,5,6-Tetrachloro-m-Xylene | 69 | 10-150 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------------|-------------------------|---------------------------|---------------|--------------|-----------------|---------------------------|------------------|
| OB-WO-WS-C3-20141008 | 14-10-0602-27-AA | 10/08/14 11:52 | Tissue | GC 63 | 10/11/14 | 10/23/14 06:44 | 141011L04 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|-----|------|------|------------|
| Toxaphene | ND | 5.0 | 0.61 | 1.00 | |

| Surrogate | Rec. (%) | Control Limits | Qualifiers |
|------------------------------|----------|----------------|------------|
| Dibutylchloroendate | 110 | 10-150 | |
| 2,4,5,6-Tetrachloro-m-Xylene | 97 | 10-150 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|----------------------|---------------------|--------------|--------------|-----------------|---------------------------|------------------|
| Method Blank | 099-15-677-28 | N/A | Solid | GC 63 | 10/11/14 | 10/22/14 12:54 | 141010L26 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|-----|------|------|------------|
| Toxaphene | ND | 5.0 | 0.61 | 1.00 | |

| Surrogate | Rec. (%) | Control Limits | Qualifiers |
|------------------------------|----------|----------------|------------|
| Dibutylchloroendate | 93 | 10-150 | |
| 2,4,5,6-Tetrachloro-m-Xylene | 100 | 10-150 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 10/08/14
Work Order: 14-10-0602
Preparation: EPA 3541
Method: EPA 8081A
Units: ug/kg

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|----------------------|---------------------|--------------|--------------|-----------------|---------------------------|------------------|
| Method Blank | 099-15-677-29 | N/A | Solid | GC 63 | 10/11/14 | 10/22/14 13:36 | 141011L04 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------------------|-----------------|-----------------------|-------------------|-----------|-------------------|
| Toxaphene | ND | 5.0 | 0.61 | 1.00 | |
| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> | | |
| Dibutylchlorodate | 83 | 10-150 | | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 86 | 10-150 | | | |


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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 10/08/14
 Work Order: 14-10-0602
 Preparation: EPA 3541
 Method: EPA 8270C PEST-SIM
 Units: ug/kg

Project: GWMA - TMDL Compliance Monitoring

Page 1 of 30

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| CP-FF-CH-C1-20141008 | 14-10-0602-1-AA | 10/08/14 11:37 | Tissue | GC/MS NNN | 10/10/14 | 11/13/14 15:48 | 141010L26M |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------------------------|----------|----------------|------------|------|------------|
| Alpha Chlordane | ND | 0.20 | 0.067 | 1.00 | |
| Cis-nonachlor | 0.060 | 0.20 | 0.024 | 1.00 | J |
| 2,4'-DDD | 0.085 | 0.20 | 0.049 | 1.00 | J |
| 2,4'-DDE | 0.64 | 0.20 | 0.048 | 1.00 | |
| 2,4'-DDT | ND | 0.20 | 0.032 | 1.00 | |
| 4,4'-DDD | 0.19 | 0.20 | 0.042 | 1.00 | J |
| 4,4'-DDT | ND | 0.20 | 0.081 | 1.00 | |
| Dieldrin | ND | 0.20 | 0.090 | 1.00 | |
| Gamma Chlordane | ND | 0.20 | 0.046 | 1.00 | |
| Oxychlordane | ND | 0.20 | 0.076 | 1.00 | |
| Trans-nonachlor | 0.082 | 0.20 | 0.048 | 1.00 | J |
| Surrogate | Rec. (%) | Control Limits | Qualifiers | | |
| Dibutylchloredate | 56 | 10-150 | | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 50 | 10-150 | | | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| CP-FF-CH-C1-20141008 | 14-10-0602-1-AA | 10/08/14 11:37 | Tissue | GC/MS NNN | 10/10/14 | 11/13/14 15:30 | 141010L26M |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------------------------|----------|----------------|------------|------|------------|
| 4,4'-DDE | 12 | 4.0 | 1.4 | 20.0 | |
| Surrogate | Rec. (%) | Control Limits | Qualifiers | | |
| Dibutylchloredate | 61 | 10-150 | | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 44 | 10-150 | | | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 10/08/14
Work Order: 14-10-0602
Preparation: EPA 3541
Method: EPA 8270C PEST-SIM
Units: ug/kg

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| CP-FF-CH-C2-20141008 | 14-10-0602-2-AA | 10/08/14 11:37 | Tissue | GC/MS NNN | 10/10/14 | 11/13/14 16:24 | 141010L26M |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------------------------|----------|----------------|------------|------|------------|
| Alpha Chlordane | ND | 0.20 | 0.067 | 1.00 | |
| Cis-nonachlor | 0.056 | 0.20 | 0.024 | 1.00 | J |
| 2,4'-DDD | 0.13 | 0.20 | 0.049 | 1.00 | J |
| 2,4'-DDE | 0.44 | 0.20 | 0.048 | 1.00 | |
| 2,4'-DDT | ND | 0.20 | 0.032 | 1.00 | |
| 4,4'-DDD | 0.16 | 0.20 | 0.042 | 1.00 | J |
| 4,4'-DDT | ND | 0.20 | 0.081 | 1.00 | |
| Dieldrin | ND | 0.20 | 0.090 | 1.00 | |
| Gamma Chlordane | ND | 0.20 | 0.046 | 1.00 | |
| Oxychlordane | ND | 0.20 | 0.076 | 1.00 | |
| Trans-nonachlor | 0.066 | 0.20 | 0.048 | 1.00 | J |
| Surrogate | Rec. (%) | Control Limits | Qualifiers | | |
| Dibutylchloredate | 52 | 10-150 | | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 51 | 10-150 | | | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| CP-FF-CH-C2-20141008 | 14-10-0602-2-AA | 10/08/14 11:37 | Tissue | GC/MS NNN | 10/10/14 | 11/13/14 16:06 | 141010L26M |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------------------------|----------|----------------|------------|------|------------|
| 4,4'-DDE | 7.6 | 2.0 | 0.71 | 10.0 | |
| Surrogate | Rec. (%) | Control Limits | Qualifiers | | |
| Dibutylchloredate | 51 | 10-150 | | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 50 | 10-150 | | | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 10/08/14
 Work Order: 14-10-0602
 Preparation: EPA 3541
 Method: EPA 8270C PEST-SIM
 Units: ug/kg

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| CP-FF-CH-C3-20141008 | 14-10-0602-3-AA | 10/08/14 11:37 | Tissue | GC/MS NNN | 10/10/14 | 11/13/14 17:00 | 141010L26M |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------------|--------|------|-------|------|------------|
| Alpha Chlordane | 0.097 | 0.20 | 0.067 | 1.00 | J |
| Cis-nonachlor | 0.085 | 0.20 | 0.024 | 1.00 | J |
| 2,4'-DDD | 0.089 | 0.20 | 0.049 | 1.00 | J |
| 2,4'-DDE | 0.38 | 0.20 | 0.048 | 1.00 | |
| 2,4'-DDT | ND | 0.20 | 0.032 | 1.00 | |
| 4,4'-DDD | 0.15 | 0.20 | 0.042 | 1.00 | J |
| 4,4'-DDE | 7.6 | 0.20 | 0.071 | 1.00 | |
| 4,4'-DDT | ND | 0.20 | 0.081 | 1.00 | |
| Dieldrin | ND | 0.20 | 0.090 | 1.00 | |
| Gamma Chlordane | 0.090 | 0.20 | 0.046 | 1.00 | J |
| Oxychlordane | 0.77 | 0.20 | 0.076 | 1.00 | |
| Trans-nonachlor | 0.11 | 0.20 | 0.048 | 1.00 | J |

| Surrogate | Rec. (%) | Control Limits | Qualifiers |
|------------------------------|----------|----------------|------------|
| Dibutylchloredate | 61 | 10-150 | |
| 2,4,5,6-Tetrachloro-m-Xylene | 55 | 10-150 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 10/08/14
 Work Order: 14-10-0602
 Preparation: EPA 3541
 Method: EPA 8270C PEST-SIM
 Units: ug/kg

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| CP-FF-WC-C1-20141008 | 14-10-0602-4-AA | 10/08/14 11:26 | Tissue | GC/MS NNN | 10/10/14 | 11/13/14 17:54 | 141010L26M |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------------------------|----------|----------------|------------|------|------------|
| Alpha Chlordane | 0.59 | 0.20 | 0.067 | 1.00 | |
| Cis-nonachlor | 0.34 | 0.20 | 0.024 | 1.00 | |
| 2,4'-DDD | 0.26 | 0.20 | 0.049 | 1.00 | |
| 2,4'-DDE | 7.5 | 0.20 | 0.048 | 1.00 | |
| 2,4'-DDT | ND | 0.20 | 0.032 | 1.00 | |
| 4,4'-DDD | 1.8 | 0.20 | 0.042 | 1.00 | |
| 4,4'-DDT | 0.43 | 0.20 | 0.081 | 1.00 | |
| Dieldrin | ND | 0.20 | 0.090 | 1.00 | |
| Gamma Chlordane | 0.22 | 0.20 | 0.046 | 1.00 | |
| Oxychlordane | ND | 0.20 | 0.076 | 1.00 | |
| Trans-nonachlor | 0.52 | 0.20 | 0.048 | 1.00 | |
| Surrogate | Rec. (%) | Control Limits | Qualifiers | | |
| Dibutylchloredate | 59 | 10-150 | | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 53 | 10-150 | | | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| CP-FF-WC-C1-20141008 | 14-10-0602-4-AA | 10/08/14 11:26 | Tissue | GC/MS NNN | 10/10/14 | 11/13/14 17:18 | 141010L26M |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------------------------|----------|----------------|------------|-----|------------|
| 4,4'-DDE | 99 | 20 | 7.1 | 100 | |
| Surrogate | Rec. (%) | Control Limits | Qualifiers | | |
| Dibutylchloredate | 77 | 10-150 | | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 57 | 10-150 | | | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 10/08/14
 Work Order: 14-10-0602
 Preparation: EPA 3541
 Method: EPA 8270C PEST-SIM
 Units: ug/kg

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| CP-FF-WC-C2-20141008 | 14-10-0602-5-AA | 10/08/14 11:26 | Tissue | GC/MS NNN | 10/10/14 | 11/13/14 20:44 | 141010L26M |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------------------------|----------|----------------|------------|------|------------|
| Alpha Chlordane | 0.58 | 0.20 | 0.067 | 1.00 | |
| Cis-nonachlor | 0.37 | 0.20 | 0.024 | 1.00 | |
| 2,4'-DDD | 1.4 | 0.20 | 0.049 | 1.00 | |
| 2,4'-DDE | 6.2 | 0.20 | 0.048 | 1.00 | |
| 2,4'-DDT | ND | 0.20 | 0.032 | 1.00 | |
| 4,4'-DDD | 1.8 | 0.20 | 0.042 | 1.00 | |
| 4,4'-DDT | 0.33 | 0.20 | 0.081 | 1.00 | |
| Dieldrin | ND | 0.20 | 0.090 | 1.00 | |
| Gamma Chlordane | 0.18 | 0.20 | 0.046 | 1.00 | J |
| Oxychlordane | ND | 0.20 | 0.076 | 1.00 | |
| Trans-nonachlor | 0.56 | 0.20 | 0.048 | 1.00 | |
| Surrogate | Rec. (%) | Control Limits | Qualifiers | | |
| Dibutylchloredate | 62 | 10-150 | | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 56 | 10-150 | | | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| CP-FF-WC-C2-20141008 | 14-10-0602-5-AA | 10/08/14 11:26 | Tissue | GC/MS NNN | 10/10/14 | 11/13/14 20:26 | 141010L26M |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------------------------|----------|----------------|------------|------|------------|
| 4,4'-DDE | 85 | 10 | 3.5 | 50.0 | |
| Surrogate | Rec. (%) | Control Limits | Qualifiers | | |
| Dibutylchloredate | 73 | 10-150 | | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 52 | 10-150 | | | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 10/08/14
Work Order: 14-10-0602
Preparation: EPA 3541
Method: EPA 8270C PEST-SIM
Units: ug/kg

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| CP-FF-WC-C3-20141008 | 14-10-0602-6-AA | 10/08/14 11:26 | Tissue | GC/MS NNN | 10/10/14 | 11/13/14 21:37 | 141010L26M |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------------|--------|------|-------|------|------------|
| Alpha Chlordane | 0.49 | 0.20 | 0.067 | 1.00 | |
| Cis-nonachlor | 0.34 | 0.20 | 0.024 | 1.00 | |
| 2,4'-DDD | 0.22 | 0.20 | 0.049 | 1.00 | |
| 2,4'-DDT | ND | 0.20 | 0.032 | 1.00 | |
| 4,4'-DDD | 2.1 | 0.20 | 0.042 | 1.00 | |
| 4,4'-DDT | 0.32 | 0.20 | 0.081 | 1.00 | |
| Dieldrin | ND | 0.20 | 0.090 | 1.00 | |
| Gamma Chlordane | 0.19 | 0.20 | 0.046 | 1.00 | J |
| Oxychlordane | ND | 0.20 | 0.076 | 1.00 | |
| Trans-nonachlor | 0.40 | 0.20 | 0.048 | 1.00 | |

| Surrogate | Rec. (%) | Control Limits | Qualifiers |
|------------------------------|----------|----------------|------------|
| Dibutylchloredate | 63 | 10-150 | |
| 2,4,5,6-Tetrachloro-m-Xylene | 56 | 10-150 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| CP-FF-WC-C3-20141008 | 14-10-0602-6-AA | 10/08/14 11:26 | Tissue | GC/MS NNN | 10/10/14 | 11/13/14 21:19 | 141010L26M |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|-----|------|------|------------|
| 2,4'-DDE | 10 | 1.0 | 0.24 | 5.00 | |

| Surrogate | Rec. (%) | Control Limits | Qualifiers |
|------------------------------|----------|----------------|------------|
| Dibutylchloredate | 61 | 10-150 | |
| 2,4,5,6-Tetrachloro-m-Xylene | 58 | 10-150 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| CP-FF-WC-C3-20141008 | 14-10-0602-6-AA | 10/08/14 11:26 | Tissue | GC/MS NNN | 10/10/14 | 11/13/14 21:01 | 141010L26M |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|----|-----|------|------------|
| 4,4'-DDE | 110 | 10 | 3.5 | 50.0 | |

| Surrogate | Rec. (%) | Control Limits | Qualifiers |
|------------------------------|----------|----------------|------------|
| Dibutylchloredate | 92 | 10-150 | |
| 2,4,5,6-Tetrachloro-m-Xylene | 70 | 10-150 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 10/08/14
Work Order: 14-10-0602
Preparation: EPA 3541
Method: EPA 8270C PEST-SIM
Units: ug/kg

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| CP-WO-WS-C1-20141008 | 14-10-0602-7-AA | 10/08/14 11:14 | Tissue | GC/MS NNN | 10/10/14 | 11/13/14 22:13 | 141010L26M |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------------------------|----------|----------------|------------|------|------------|
| Alpha Chlordane | 0.38 | 0.20 | 0.067 | 1.00 | |
| Cis-nonachlor | 0.25 | 0.20 | 0.024 | 1.00 | |
| 2,4'-DDD | 0.11 | 0.20 | 0.049 | 1.00 | J |
| 2,4'-DDE | 1.5 | 0.20 | 0.048 | 1.00 | |
| 2,4'-DDT | ND | 0.20 | 0.032 | 1.00 | |
| 4,4'-DDD | 0.91 | 0.20 | 0.042 | 1.00 | |
| 4,4'-DDT | 0.14 | 0.20 | 0.081 | 1.00 | J |
| Dieldrin | ND | 0.20 | 0.090 | 1.00 | |
| Gamma Chlordane | 0.35 | 0.20 | 0.046 | 1.00 | |
| Oxychlordane | ND | 0.20 | 0.076 | 1.00 | |
| Trans-nonachlor | 0.44 | 0.20 | 0.048 | 1.00 | |
| Surrogate | Rec. (%) | Control Limits | Qualifiers | | |
| Dibutylchloredate | 44 | 10-150 | | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 42 | 10-150 | | | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| CP-WO-WS-C1-20141008 | 14-10-0602-7-AA | 10/08/14 11:14 | Tissue | GC/MS NNN | 10/10/14 | 11/13/14 21:55 | 141010L26M |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------------------------|----------|----------------|------------|------|------------|
| 4,4'-DDE | 69 | 10 | 3.5 | 50.0 | |
| Surrogate | Rec. (%) | Control Limits | Qualifiers | | |
| Dibutylchloredate | 48 | 10-150 | | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 39 | 10-150 | | | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 10/08/14
Work Order: 14-10-0602
Preparation: EPA 3541
Method: EPA 8270C PEST-SIM
Units: ug/kg

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| CP-WO-WS-C2-20141008 | 14-10-0602-8-AA | 10/08/14 11:14 | Tissue | GC/MS NNN | 10/10/14 | 11/13/14 22:49 | 141010L26M |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------------------------|----------|----------------|------------|------|------------|
| Alpha Chlordane | 0.18 | 0.20 | 0.067 | 1.00 | J |
| Cis-nonachlor | 0.14 | 0.20 | 0.024 | 1.00 | J |
| 2,4'-DDD | 0.075 | 0.20 | 0.049 | 1.00 | J |
| 2,4'-DDE | 0.65 | 0.20 | 0.048 | 1.00 | |
| 2,4'-DDT | ND | 0.20 | 0.032 | 1.00 | |
| 4,4'-DDD | 0.45 | 0.20 | 0.042 | 1.00 | |
| 4,4'-DDT | 0.15 | 0.20 | 0.081 | 1.00 | J |
| Dieldrin | ND | 0.20 | 0.090 | 1.00 | |
| Gamma Chlordane | ND | 0.20 | 0.046 | 1.00 | |
| Oxychlordane | ND | 0.20 | 0.076 | 1.00 | |
| Trans-nonachlor | 0.22 | 0.20 | 0.048 | 1.00 | |
| Surrogate | Rec. (%) | Control Limits | Qualifiers | | |
| Dibutylchloredate | 26 | 10-150 | | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 24 | 10-150 | | | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| CP-WO-WS-C2-20141008 | 14-10-0602-8-AA | 10/08/14 11:14 | Tissue | GC/MS NNN | 10/10/14 | 11/13/14 22:31 | 141010L26M |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------------------------|----------|----------------|------------|------|------------|
| 4,4'-DDE | 39 | 4.0 | 1.4 | 20.0 | |
| Surrogate | Rec. (%) | Control Limits | Qualifiers | | |
| Dibutylchloredate | 28 | 10-150 | | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 20 | 10-150 | | | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 10/08/14
 Work Order: 14-10-0602
 Preparation: EPA 3541
 Method: EPA 8270C PEST-SIM
 Units: ug/kg

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| CP-WO-WS-C3-20141008 | 14-10-0602-9-AA | 10/08/14 11:14 | Tissue | GC/MS NNN | 10/10/14 | 11/13/14 23:25 | 141010L26M |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------------------------|----------|----------------|------------|------|------------|
| Alpha Chlordane | 0.21 | 0.20 | 0.067 | 1.00 | |
| Cis-nonachlor | 0.19 | 0.20 | 0.024 | 1.00 | J |
| 2,4'-DDD | 0.050 | 0.20 | 0.049 | 1.00 | J |
| 2,4'-DDE | 0.70 | 0.20 | 0.048 | 1.00 | |
| 2,4'-DDT | ND | 0.20 | 0.032 | 1.00 | |
| 4,4'-DDD | 0.55 | 0.20 | 0.042 | 1.00 | |
| 4,4'-DDT | 0.19 | 0.20 | 0.081 | 1.00 | J |
| Dieldrin | ND | 0.20 | 0.090 | 1.00 | |
| Gamma Chlordane | ND | 0.20 | 0.046 | 1.00 | |
| Oxychlordane | ND | 0.20 | 0.076 | 1.00 | |
| Trans-nonachlor | 0.31 | 0.20 | 0.048 | 1.00 | |
| Surrogate | Rec. (%) | Control Limits | Qualifiers | | |
| Dibutylchloredate | 40 | 10-150 | | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 44 | 10-150 | | | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| CP-WO-WS-C3-20141008 | 14-10-0602-9-AA | 10/08/14 11:14 | Tissue | GC/MS NNN | 10/10/14 | 11/13/14 23:07 | 141010L26M |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------------------------|----------|----------------|------------|------|------------|
| 4,4'-DDE | 55 | 4.0 | 1.4 | 20.0 | |
| Surrogate | Rec. (%) | Control Limits | Qualifiers | | |
| Dibutylchloredate | 39 | 10-150 | | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 39 | 10-150 | | | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 10/08/14
 Work Order: 14-10-0602
 Preparation: EPA 3541
 Method: EPA 8270C PEST-SIM
 Units: ug/kg

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| SP-FF-CH-C1-20141008 | 14-10-0602-10-AA | 10/08/14 12:10 | Tissue | GC/MS NNN | 11/16/14 | 11/18/14 16:38 | 141116L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------------|--------|------|-------|------|------------|
| Alpha Chlordane | 0.14 | 0.20 | 0.067 | 1.00 | J |
| Cis-nonachlor | 0.17 | 0.20 | 0.024 | 1.00 | J |
| 2,4'-DDD | ND | 0.20 | 0.049 | 1.00 | |
| 2,4'-DDE | 0.33 | 0.20 | 0.048 | 1.00 | |
| 2,4'-DDT | ND | 0.20 | 0.032 | 1.00 | |
| 4,4'-DDD | 0.15 | 0.20 | 0.042 | 1.00 | J |
| 4,4'-DDE | 6.7 | 0.20 | 0.071 | 1.00 | |
| 4,4'-DDT | ND | 0.20 | 0.081 | 1.00 | |
| Dieldrin | ND | 0.20 | 0.090 | 1.00 | |
| Gamma Chlordane | ND | 0.20 | 0.046 | 1.00 | |
| Oxychlordane | ND | 0.20 | 0.076 | 1.00 | |
| Trans-nonachlor | 0.23 | 0.20 | 0.048 | 1.00 | |

| Surrogate | Rec. (%) | Control Limits | Qualifiers |
|------------------------------|----------|----------------|------------|
| Dibutylchloredate | 53 | 10-150 | |
| 2,4,5,6-Tetrachloro-m-Xylene | 58 | 10-150 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 10/08/14
Work Order: 14-10-0602
Preparation: EPA 3541
Method: EPA 8270C PEST-SIM
Units: ug/kg

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| SP-FF-CH-C2-20141008 | 14-10-0602-11-AA | 10/08/14 12:10 | Tissue | GC/MS NNN | 10/10/14 | 11/13/14 23:43 | 141010L26M |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------------------------|----------|----------------|------------|------|------------|
| Alpha Chlordane | 0.16 | 0.20 | 0.067 | 1.00 | J |
| Cis-nonachlor | 0.15 | 0.20 | 0.024 | 1.00 | J |
| 2,4'-DDD | 0.11 | 0.20 | 0.049 | 1.00 | J |
| 2,4'-DDE | 0.78 | 0.20 | 0.048 | 1.00 | |
| 2,4'-DDT | ND | 0.20 | 0.032 | 1.00 | |
| 4,4'-DDD | 0.20 | 0.20 | 0.042 | 1.00 | J |
| 4,4'-DDT | ND | 0.20 | 0.081 | 1.00 | |
| Dieldrin | ND | 0.20 | 0.090 | 1.00 | |
| Gamma Chlordane | ND | 0.20 | 0.046 | 1.00 | |
| Oxychlordane | ND | 0.20 | 0.076 | 1.00 | |
| Trans-nonachlor | 0.19 | 0.20 | 0.048 | 1.00 | J |
| Surrogate | Rec. (%) | Control Limits | Qualifiers | | |
| Dibutylchloredate | 50 | 10-150 | | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 49 | 10-150 | | | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| SP-FF-CH-C2-20141008 | 14-10-0602-11-AA | 10/08/14 12:10 | Tissue | GC/MS NNN | 10/10/14 | 11/18/14 16:56 | 141010L26M |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------------------------|----------|----------------|------------|------|------------|
| 4,4'-DDE | 17 | 1.0 | 0.35 | 5.00 | |
| Surrogate | Rec. (%) | Control Limits | Qualifiers | | |
| Dibutylchloredate | 73 | 10-150 | | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 71 | 10-150 | | | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 10/08/14
Work Order: 14-10-0602
Preparation: EPA 3541
Method: EPA 8270C PEST-SIM
Units: ug/kg

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| SP-FF-CH-C3-20141008 | 14-10-0602-12-AA | 10/08/14 12:10 | Tissue | GC/MS NNN | 10/10/14 | 11/14/14 00:19 | 141010L26M |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------------------------|----------|----------------|------------|------|------------|
| Alpha Chlordane | 0.16 | 0.20 | 0.067 | 1.00 | J |
| Cis-nonachlor | 0.12 | 0.20 | 0.024 | 1.00 | J |
| 2,4'-DDD | 0.11 | 0.20 | 0.049 | 1.00 | J |
| 2,4'-DDE | 0.43 | 0.20 | 0.048 | 1.00 | |
| 2,4'-DDT | ND | 0.20 | 0.032 | 1.00 | |
| 4,4'-DDD | 0.19 | 0.20 | 0.042 | 1.00 | J |
| 4,4'-DDT | 0.12 | 0.20 | 0.081 | 1.00 | J |
| Dieldrin | ND | 0.20 | 0.090 | 1.00 | |
| Gamma Chlordane | 0.048 | 0.20 | 0.046 | 1.00 | J |
| Oxychlordane | ND | 0.20 | 0.076 | 1.00 | |
| Trans-nonachlor | 0.20 | 0.20 | 0.048 | 1.00 | J |
| Surrogate | Rec. (%) | Control Limits | Qualifiers | | |
| Dibutylchloredate | 42 | 10-150 | | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 43 | 10-150 | | | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| SP-FF-CH-C3-20141008 | 14-10-0602-12-AA | 10/08/14 12:10 | Tissue | GC/MS NNN | 10/10/14 | 11/14/14 00:01 | 141010L26M |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------------------------|----------|----------------|------------|------|------------|
| 4,4'-DDE | 7.8 | 1.0 | 0.35 | 5.00 | |
| Surrogate | Rec. (%) | Control Limits | Qualifiers | | |
| Dibutylchloredate | 41 | 10-150 | | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 43 | 10-150 | | | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 10/08/14
Work Order: 14-10-0602
Preparation: EPA 3541
Method: EPA 8270C PEST-SIM
Units: ug/kg

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| SP-WO-PP-C1-20141008 | 14-10-0602-13-AA | 10/08/14 12:19 | Tissue | GC/MS NNN | 10/10/14 | 11/14/14 00:54 | 141010L26M |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------------------------|-----------------|-----------------------|-------------------|------|------------|
| Alpha Chlordane | 0.82 | 0.20 | 0.067 | 1.00 | |
| Cis-nonachlor | 0.51 | 0.20 | 0.024 | 1.00 | |
| 2,4'-DDD | 0.31 | 0.20 | 0.049 | 1.00 | |
| 2,4'-DDE | 7.2 | 0.20 | 0.048 | 1.00 | |
| 2,4'-DDT | ND | 0.20 | 0.032 | 1.00 | |
| 4,4'-DDD | 1.9 | 0.20 | 0.042 | 1.00 | |
| 4,4'-DDT | 0.38 | 0.20 | 0.081 | 1.00 | |
| Dieldrin | ND | 0.20 | 0.090 | 1.00 | |
| Gamma Chlordane | 0.48 | 0.20 | 0.046 | 1.00 | |
| Oxychlordane | ND | 0.20 | 0.076 | 1.00 | |
| Trans-nonachlor | 0.70 | 0.20 | 0.048 | 1.00 | |
| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> | | |
| Dibutylchloredate | 26 | 10-150 | | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 28 | 10-150 | | | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| SP-WO-PP-C1-20141008 | 14-10-0602-13-AA | 10/08/14 12:19 | Tissue | GC/MS NNN | 10/10/14 | 11/14/14 00:36 | 141010L26M |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------------------------|-----------------|-----------------------|-------------------|------|------------|
| 4,4'-DDE | 55 | 2.0 | 0.71 | 10.0 | |
| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> | | |
| Dibutylchloredate | 27 | 10-150 | | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 27 | 10-150 | | | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 10/08/14
Work Order: 14-10-0602
Preparation: EPA 3541
Method: EPA 8270C PEST-SIM
Units: ug/kg

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| SP-WO-PP-C2-20141008 | 14-10-0602-14-AA | 10/08/14 12:19 | Tissue | GC/MS NNN | 10/10/14 | 11/14/14 01:48 | 141010L26M |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------------|--------|------|-------|------|------------|
| Alpha Chlordane | 1.6 | 0.20 | 0.067 | 1.00 | |
| Cis-nonachlor | 0.97 | 0.20 | 0.024 | 1.00 | |
| 2,4'-DDD | 0.55 | 0.20 | 0.049 | 1.00 | |
| 2,4'-DDT | ND | 0.20 | 0.032 | 1.00 | |
| 4,4'-DDD | 2.8 | 0.20 | 0.042 | 1.00 | |
| 4,4'-DDT | 0.45 | 0.20 | 0.081 | 1.00 | |
| Dieldrin | ND | 0.20 | 0.090 | 1.00 | |
| Gamma Chlordane | 0.98 | 0.20 | 0.046 | 1.00 | |
| Oxychlordane | ND | 0.20 | 0.076 | 1.00 | |
| Trans-nonachlor | 1.3 | 0.20 | 0.048 | 1.00 | |

| Surrogate | Rec. (%) | Control Limits | Qualifiers |
|------------------------------|----------|----------------|------------|
| Dibutylchloredate | 49 | 10-150 | |
| 2,4,5,6-Tetrachloro-m-Xylene | 54 | 10-150 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| SP-WO-PP-C2-20141008 | 14-10-0602-14-AA | 10/08/14 12:19 | Tissue | GC/MS NNN | 10/10/14 | 11/14/14 01:30 | 141010L26M |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|-----|------|------|------------|
| 2,4'-DDE | 11 | 1.0 | 0.24 | 5.00 | |

| Surrogate | Rec. (%) | Control Limits | Qualifiers |
|------------------------------|----------|----------------|------------|
| Dibutylchloredate | 50 | 10-150 | |
| 2,4,5,6-Tetrachloro-m-Xylene | 51 | 10-150 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| SP-WO-PP-C2-20141008 | 14-10-0602-14-AA | 10/08/14 12:19 | Tissue | GC/MS NNN | 10/10/14 | 11/14/14 01:12 | 141010L26M |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|----|-----|------|------------|
| 4,4'-DDE | 120 | 10 | 3.5 | 50.0 | |

| Surrogate | Rec. (%) | Control Limits | Qualifiers |
|------------------------------|----------|----------------|------------|
| Dibutylchloredate | 64 | 10-150 | |
| 2,4,5,6-Tetrachloro-m-Xylene | 57 | 10-150 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 10/08/14
Work Order: 14-10-0602
Preparation: EPA 3541
Method: EPA 8270C PEST-SIM
Units: ug/kg

Project: GWMA - TMDL Compliance Monitoring

Page 15 of 30

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| SP-WO-PP-C3-20141008 | 14-10-0602-15-AA | 10/08/14 12:19 | Tissue | GC/MS NNN | 10/11/14 | 11/14/14 02:24 | 141011L04M |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------------------------|----------|----------------|------------|------|------------|
| Alpha Chlordane | 1.6 | 0.20 | 0.067 | 1.00 | |
| Cis-nonachlor | 0.91 | 0.20 | 0.024 | 1.00 | |
| 2,4'-DDD | 0.34 | 0.20 | 0.049 | 1.00 | |
| 2,4'-DDE | 4.8 | 0.20 | 0.048 | 1.00 | |
| 2,4'-DDT | ND | 0.20 | 0.032 | 1.00 | |
| 4,4'-DDD | 1.8 | 0.20 | 0.042 | 1.00 | |
| 4,4'-DDT | 0.16 | 0.20 | 0.081 | 1.00 | J |
| Dieldrin | ND | 0.20 | 0.090 | 1.00 | |
| Gamma Chlordane | 1.0 | 0.20 | 0.046 | 1.00 | |
| Oxychlordane | ND | 0.20 | 0.076 | 1.00 | |
| Trans-nonachlor | 1.3 | 0.20 | 0.048 | 1.00 | |
| Surrogate | Rec. (%) | Control Limits | Qualifiers | | |
| Dibutylchloredate | 46 | 10-150 | | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 48 | 10-150 | | | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| SP-WO-PP-C3-20141008 | 14-10-0602-15-AA | 10/08/14 12:19 | Tissue | GC/MS NNN | 10/11/14 | 11/14/14 02:06 | 141011L04M |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------------------------|----------|----------------|------------|------|------------|
| 4,4'-DDE | 34 | 2.0 | 0.71 | 10.0 | |
| Surrogate | Rec. (%) | Control Limits | Qualifiers | | |
| Dibutylchloredate | 43 | 10-150 | | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 46 | 10-150 | | | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 10/08/14
 Work Order: 14-10-0602
 Preparation: EPA 3541
 Method: EPA 8270C PEST-SIM
 Units: ug/kg

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| SP-FF-WC-C1-20141008 | 14-10-0602-16-AA | 10/08/14 12:26 | Tissue | GC/MS NNN | 10/11/14 | 11/14/14 03:00 | 141011L04M |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------------------------|----------|----------------|------------|------|------------|
| Alpha Chlordane | 2.7 | 0.20 | 0.067 | 1.00 | |
| Cis-nonachlor | 2.2 | 0.20 | 0.024 | 1.00 | |
| 2,4'-DDD | 0.28 | 0.20 | 0.049 | 1.00 | |
| 2,4'-DDE | 5.6 | 0.20 | 0.048 | 1.00 | |
| 2,4'-DDT | ND | 0.20 | 0.032 | 1.00 | |
| 4,4'-DDD | 3.6 | 0.20 | 0.042 | 1.00 | |
| 4,4'-DDT | 0.16 | 0.20 | 0.081 | 1.00 | J |
| Dieldrin | ND | 0.20 | 0.090 | 1.00 | |
| Gamma Chlordane | 1.3 | 0.20 | 0.046 | 1.00 | |
| Oxychlordane | ND | 0.20 | 0.076 | 1.00 | |
| Trans-nonachlor | 2.7 | 0.20 | 0.048 | 1.00 | |
| Surrogate | Rec. (%) | Control Limits | Qualifiers | | |
| Dibutylchloredate | 46 | 10-150 | | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 51 | 10-150 | | | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| SP-FF-WC-C1-20141008 | 14-10-0602-16-AA | 10/08/14 12:26 | Tissue | GC/MS NNN | 10/11/14 | 11/14/14 02:42 | 141011L04M |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------------------------|----------|----------------|------------|------|------------|
| 4,4'-DDE | 86 | 10 | 3.5 | 50.0 | |
| Surrogate | Rec. (%) | Control Limits | Qualifiers | | |
| Dibutylchloredate | 58 | 10-150 | | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 58 | 10-150 | | | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 10/08/14
 Work Order: 14-10-0602
 Preparation: EPA 3541
 Method: EPA 8270C PEST-SIM
 Units: ug/kg

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| SP-FF-WC-C2-20141008 | 14-10-0602-17-AA | 10/08/14 12:26 | Tissue | GC/MS NNN | 10/11/14 | 11/14/14 03:36 | 141011L04M |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------------------------|----------|----------------|------------|------|------------|
| Alpha Chlordane | 1.7 | 0.20 | 0.067 | 1.00 | |
| Cis-nonachlor | 1.0 | 0.20 | 0.024 | 1.00 | |
| 2,4'-DDD | 0.17 | 0.20 | 0.049 | 1.00 | J |
| 2,4'-DDE | 2.7 | 0.20 | 0.048 | 1.00 | |
| 2,4'-DDT | ND | 0.20 | 0.032 | 1.00 | |
| 4,4'-DDD | 1.7 | 0.20 | 0.042 | 1.00 | |
| 4,4'-DDT | 0.097 | 0.20 | 0.081 | 1.00 | J |
| Dieldrin | ND | 0.20 | 0.090 | 1.00 | |
| Gamma Chlordane | 0.78 | 0.20 | 0.046 | 1.00 | |
| Oxychlordane | ND | 0.20 | 0.076 | 1.00 | |
| Trans-nonachlor | 1.4 | 0.20 | 0.048 | 1.00 | |
| Surrogate | Rec. (%) | Control Limits | Qualifiers | | |
| Dibutylchloredate | 48 | 10-150 | | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 45 | 10-150 | | | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| SP-FF-WC-C2-20141008 | 14-10-0602-17-AA | 10/08/14 12:26 | Tissue | GC/MS NNN | 10/11/14 | 11/14/14 03:18 | 141011L04M |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------------------------|----------|----------------|------------|------|------------|
| 4,4'-DDE | 29 | 2.0 | 0.71 | 10.0 | |
| Surrogate | Rec. (%) | Control Limits | Qualifiers | | |
| Dibutylchloredate | 50 | 10-150 | | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 42 | 10-150 | | | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 10/08/14
Work Order: 14-10-0602
Preparation: EPA 3541
Method: EPA 8270C PEST-SIM
Units: ug/kg

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| SP-FF-WC-C3-20141008 | 14-10-0602-18-AA | 10/08/14 12:26 | Tissue | GC/MS NNN | 10/11/14 | 11/14/14 04:12 | 141011L04M |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------------------------|----------|----------------|------------|------|------------|
| Alpha Chlordane | 2.5 | 0.20 | 0.067 | 1.00 | |
| Cis-nonachlor | 1.8 | 0.20 | 0.024 | 1.00 | |
| 2,4'-DDD | 0.21 | 0.20 | 0.049 | 1.00 | |
| 2,4'-DDE | 5.6 | 0.20 | 0.048 | 1.00 | |
| 2,4'-DDT | ND | 0.20 | 0.032 | 1.00 | |
| 4,4'-DDD | 3.2 | 0.20 | 0.042 | 1.00 | |
| 4,4'-DDT | ND | 0.20 | 0.081 | 1.00 | |
| Dieldrin | ND | 0.20 | 0.090 | 1.00 | |
| Gamma Chlordane | 1.4 | 0.20 | 0.046 | 1.00 | |
| Oxychlordane | ND | 0.20 | 0.076 | 1.00 | |
| Trans-nonachlor | 2.3 | 0.20 | 0.048 | 1.00 | |
| Surrogate | Rec. (%) | Control Limits | Qualifiers | | |
| Dibutylchloredate | 38 | 10-150 | | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 37 | 10-150 | | | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| SP-FF-WC-C3-20141008 | 14-10-0602-18-AA | 10/08/14 12:26 | Tissue | GC/MS NNN | 10/11/14 | 11/14/14 03:54 | 141011L04M |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------------------------|----------|----------------|------------|------|------------|
| 4,4'-DDE | 54 | 4.0 | 1.4 | 20.0 | |
| Surrogate | Rec. (%) | Control Limits | Qualifiers | | |
| Dibutylchloredate | 44 | 10-150 | | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 38 | 10-150 | | | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 10/08/14
Work Order: 14-10-0602
Preparation: EPA 3541
Method: EPA 8270C PEST-SIM
Units: ug/kg

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| OB-FF-CH-C1-20141008 | 14-10-0602-19-AA | 10/08/14 12:03 | Tissue | GC/MS NNN | 10/11/14 | 11/14/14 04:48 | 141011L04M |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------------------------|----------|----------------|------------|------|------------|
| Alpha Chlordane | 0.082 | 0.20 | 0.067 | 1.00 | J |
| Cis-nonachlor | 0.14 | 0.20 | 0.024 | 1.00 | J |
| 2,4'-DDD | 0.10 | 0.20 | 0.049 | 1.00 | J |
| 2,4'-DDE | 0.92 | 0.20 | 0.048 | 1.00 | |
| 2,4'-DDT | ND | 0.20 | 0.032 | 1.00 | |
| 4,4'-DDD | 0.20 | 0.20 | 0.042 | 1.00 | J |
| 4,4'-DDT | ND | 0.20 | 0.081 | 1.00 | |
| Dieldrin | ND | 0.20 | 0.090 | 1.00 | |
| Gamma Chlordane | ND | 0.20 | 0.046 | 1.00 | |
| Oxychlordane | ND | 0.20 | 0.076 | 1.00 | |
| Trans-nonachlor | 0.20 | 0.20 | 0.048 | 1.00 | |
| Surrogate | Rec. (%) | Control Limits | Qualifiers | | |
| Dibutylchloredate | 35 | 10-150 | | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 32 | 10-150 | | | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| OB-FF-CH-C1-20141008 | 14-10-0602-19-AA | 10/08/14 12:03 | Tissue | GC/MS NNN | 10/11/14 | 11/14/14 04:30 | 141011L04M |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------------------------|----------|----------------|------------|------|------------|
| 4,4'-DDE | 15 | 2.0 | 0.71 | 10.0 | |
| Surrogate | Rec. (%) | Control Limits | Qualifiers | | |
| Dibutylchloredate | 41 | 10-150 | | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 33 | 10-150 | | | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 10/08/14
Work Order: 14-10-0602
Preparation: EPA 3541
Method: EPA 8270C PEST-SIM
Units: ug/kg

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| OB-FF-CH-C2-20141008 | 14-10-0602-20-AA | 10/08/14 12:03 | Tissue | GC/MS NNN | 10/11/14 | 11/14/14 05:23 | 141011L04M |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------------|--------|------|-------|------|------------|
| Alpha Chlordane | 0.11 | 0.20 | 0.067 | 1.00 | J |
| Cis-nonachlor | 0.063 | 0.20 | 0.024 | 1.00 | J |
| 2,4'-DDD | 0.086 | 0.20 | 0.049 | 1.00 | J |
| 2,4'-DDE | 0.47 | 0.20 | 0.048 | 1.00 | |
| 2,4'-DDT | ND | 0.20 | 0.032 | 1.00 | |
| 4,4'-DDD | 0.10 | 0.20 | 0.042 | 1.00 | J |
| 4,4'-DDE | 7.2 | 0.20 | 0.071 | 1.00 | |
| 4,4'-DDT | ND | 0.20 | 0.081 | 1.00 | |
| Dieldrin | ND | 0.20 | 0.090 | 1.00 | |
| Gamma Chlordane | ND | 0.20 | 0.046 | 1.00 | |
| Oxychlordane | ND | 0.20 | 0.076 | 1.00 | |
| Trans-nonachlor | 0.095 | 0.20 | 0.048 | 1.00 | J |

| Surrogate | Rec. (%) | Control Limits | Qualifiers |
|------------------------------|----------|----------------|------------|
| Dibutylchloredate | 25 | 10-150 | |
| 2,4,5,6-Tetrachloro-m-Xylene | 28 | 10-150 | |

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

| | |
|---|--|
| ANCHOR QEA, LLC 27201 Puerta Real, Suite 350 Mission Viejo, CA 92691-8306 | Date Received: 10/08/14 Work Order: 14-10-0602 Preparation: EPA 3541 Method: EPA 8270C PEST-SIM Units: ug/kg |
| Project: GWMA - TMDL Compliance Monitoring | Page 21 of 30 |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|-----------------------------|-------------------------|---------------------------|---------------|------------------|-----------------|---------------------------|-------------------|
| OB-FF-CH-C3-20141008 | 14-10-0602-21-AA | 10/08/14 12:03 | Tissue | GC/MS NNN | 10/11/14 | 11/14/14 05:59 | 141011L04M |

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|---------------|-----------|------------|-----------|-------------------|
| Alpha Chlordane | ND | 0.20 | 0.067 | 1.00 | |
| Cis-nonachlor | ND | 0.20 | 0.024 | 1.00 | |
| 2,4'-DDD | 0.20 | 0.20 | 0.049 | 1.00 | J |
| 2,4'-DDE | 0.38 | 0.20 | 0.048 | 1.00 | |
| 2,4'-DDT | ND | 0.20 | 0.032 | 1.00 | |
| 4,4'-DDD | 0.11 | 0.20 | 0.042 | 1.00 | J |
| 4,4'-DDE | 6.0 | 0.20 | 0.071 | 1.00 | |
| 4,4'-DDT | ND | 0.20 | 0.081 | 1.00 | |
| Dieldrin | ND | 0.20 | 0.090 | 1.00 | |
| Gamma Chlordane | ND | 0.20 | 0.046 | 1.00 | |
| Oxychlordane | ND | 0.20 | 0.076 | 1.00 | |
| Trans-nonachlor | 0.049 | 0.20 | 0.048 | 1.00 | J |

| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> |
|------------------------------|-----------------|-----------------------|-------------------|
| Dibutylchloredate | 36 | 10-150 | |
| 2,4,5,6-Tetrachloro-m-Xylene | 35 | 10-150 | |

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 10/08/14
Work Order: 14-10-0602
Preparation: EPA 3541
Method: EPA 8270C PEST-SIM
Units: ug/kg

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| OB-FF-WC-C1-20141008 | 14-10-0602-22-AA | 10/08/14 11:46 | Tissue | GC/MS NNN | 10/11/14 | 11/14/14 06:53 | 141011L04M |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------------|--------|------|-------|------|------------|
| Alpha Chlordane | 0.38 | 0.20 | 0.067 | 1.00 | |
| Cis-nonachlor | 0.36 | 0.20 | 0.024 | 1.00 | |
| 2,4'-DDD | 0.092 | 0.20 | 0.049 | 1.00 | J |
| 2,4'-DDT | ND | 0.20 | 0.032 | 1.00 | |
| 4,4'-DDD | 2.4 | 0.20 | 0.042 | 1.00 | |
| 4,4'-DDT | 0.60 | 0.20 | 0.081 | 1.00 | |
| Dieldrin | ND | 0.20 | 0.090 | 1.00 | |
| Gamma Chlordane | 0.10 | 0.20 | 0.046 | 1.00 | J |
| Oxychlordane | ND | 0.20 | 0.076 | 1.00 | |
| Trans-nonachlor | 0.44 | 0.20 | 0.048 | 1.00 | |

| Surrogate | Rec. (%) | Control Limits | Qualifiers |
|------------------------------|----------|----------------|------------|
| Dibutylchloredate | 35 | 10-150 | |
| 2,4,5,6-Tetrachloro-m-Xylene | 37 | 10-150 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| OB-FF-WC-C1-20141008 | 14-10-0602-22-AA | 10/08/14 11:46 | Tissue | GC/MS NNN | 10/11/14 | 11/14/14 06:35 | 141011L04M |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|-----|------|------|------------|
| 2,4'-DDE | 11 | 2.0 | 0.48 | 10.0 | |

| Surrogate | Rec. (%) | Control Limits | Qualifiers |
|------------------------------|----------|----------------|------------|
| Dibutylchloredate | 43 | 10-150 | |
| 2,4,5,6-Tetrachloro-m-Xylene | 40 | 10-150 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| OB-FF-WC-C1-20141008 | 14-10-0602-22-AA | 10/08/14 11:46 | Tissue | GC/MS NNN | 10/11/14 | 11/14/14 06:17 | 141011L04M |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|----|-----|-----|------------|
| 4,4'-DDE | 200 | 20 | 7.1 | 100 | |

| Surrogate | Rec. (%) | Control Limits | Qualifiers |
|------------------------------|----------|----------------|------------|
| Dibutylchloredate | 60 | 10-150 | |
| 2,4,5,6-Tetrachloro-m-Xylene | 52 | 10-150 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 10/08/14
Work Order: 14-10-0602
Preparation: EPA 3541
Method: EPA 8270C PEST-SIM
Units: ug/kg

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| OB-FF-WC-C2-20141008 | 14-10-0602-23-AA | 10/08/14 11:46 | Tissue | GC/MS NNN | 10/11/14 | 11/14/14 09:10 | 141011L04M |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------------|--------|------|-------|------|------------|
| Alpha Chlordane | 0.46 | 0.20 | 0.067 | 1.00 | |
| Cis-nonachlor | 0.39 | 0.20 | 0.024 | 1.00 | |
| 2,4'-DDD | 0.15 | 0.20 | 0.049 | 1.00 | J |
| 2,4'-DDT | ND | 0.20 | 0.032 | 1.00 | |
| 4,4'-DDD | 1.4 | 0.20 | 0.042 | 1.00 | |
| 4,4'-DDT | 0.17 | 0.20 | 0.081 | 1.00 | J |
| Dieldrin | ND | 0.20 | 0.090 | 1.00 | |
| Gamma Chlordane | 0.19 | 0.20 | 0.046 | 1.00 | J |
| Oxychlordane | ND | 0.20 | 0.076 | 1.00 | |
| Trans-nonachlor | 0.43 | 0.20 | 0.048 | 1.00 | |

| Surrogate | Rec. (%) | Control Limits | Qualifiers |
|------------------------------|----------|----------------|------------|
| Dibutylchloredate | 40 | 10-150 | |
| 2,4,5,6-Tetrachloro-m-Xylene | 38 | 10-150 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| OB-FF-WC-C2-20141008 | 14-10-0602-23-AA | 10/08/14 11:46 | Tissue | GC/MS NNN | 10/11/14 | 11/14/14 08:52 | 141011L04M |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|-----|------|------|------------|
| 2,4'-DDE | 10 | 1.0 | 0.24 | 5.00 | |

| Surrogate | Rec. (%) | Control Limits | Qualifiers |
|------------------------------|----------|----------------|------------|
| Dibutylchloredate | 48 | 10-150 | |
| 2,4,5,6-Tetrachloro-m-Xylene | 44 | 10-150 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| OB-FF-WC-C2-20141008 | 14-10-0602-23-AA | 10/08/14 11:46 | Tissue | GC/MS NNN | 10/11/14 | 11/14/14 08:34 | 141011L04M |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|----|-----|------|------------|
| 4,4'-DDE | 110 | 10 | 3.5 | 50.0 | |

| Surrogate | Rec. (%) | Control Limits | Qualifiers |
|------------------------------|----------|----------------|------------|
| Dibutylchloredate | 46 | 10-150 | |
| 2,4,5,6-Tetrachloro-m-Xylene | 49 | 10-150 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 10/08/14
Work Order: 14-10-0602
Preparation: EPA 3541
Method: EPA 8270C PEST-SIM
Units: ug/kg

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| OB-FF-WC-C3-20141008 | 14-10-0602-24-AA | 10/08/14 11:46 | Tissue | GC/MS NNN | 10/11/14 | 11/14/14 10:04 | 141011L04M |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------------|--------|------|-------|------|------------|
| Alpha Chlordane | 0.58 | 0.20 | 0.067 | 1.00 | |
| Cis-nonachlor | 0.42 | 0.20 | 0.024 | 1.00 | |
| 2,4'-DDD | 1.8 | 0.20 | 0.049 | 1.00 | |
| 2,4'-DDT | ND | 0.20 | 0.032 | 1.00 | |
| 4,4'-DDD | 1.9 | 0.20 | 0.042 | 1.00 | |
| 4,4'-DDT | 0.26 | 0.20 | 0.081 | 1.00 | |
| Dieldrin | ND | 0.20 | 0.090 | 1.00 | |
| Gamma Chlordane | 0.25 | 0.20 | 0.046 | 1.00 | |
| Oxychlordane | ND | 0.20 | 0.076 | 1.00 | |
| Trans-nonachlor | 0.48 | 0.20 | 0.048 | 1.00 | |

| Surrogate | Rec. (%) | Control Limits | Qualifiers |
|------------------------------|----------|----------------|------------|
| Dibutylchloredate | 48 | 10-150 | |
| 2,4,5,6-Tetrachloro-m-Xylene | 46 | 10-150 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| OB-FF-WC-C3-20141008 | 14-10-0602-24-AA | 10/08/14 11:46 | Tissue | GC/MS NNN | 10/11/14 | 11/14/14 09:46 | 141011L04M |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|-----|------|------|------------|
| 2,4'-DDE | 13 | 1.0 | 0.24 | 5.00 | |

| Surrogate | Rec. (%) | Control Limits | Qualifiers |
|------------------------------|----------|----------------|------------|
| Dibutylchloredate | 55 | 10-150 | |
| 2,4,5,6-Tetrachloro-m-Xylene | 48 | 10-150 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| OB-FF-WC-C3-20141008 | 14-10-0602-24-AA | 10/08/14 11:46 | Tissue | GC/MS NNN | 10/11/14 | 11/14/14 09:28 | 141011L04M |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|----|-----|------|------------|
| 4,4'-DDE | 150 | 10 | 3.5 | 50.0 | |

| Surrogate | Rec. (%) | Control Limits | Qualifiers |
|------------------------------|----------|----------------|------------|
| Dibutylchloredate | 67 | 10-150 | |
| 2,4,5,6-Tetrachloro-m-Xylene | 55 | 10-150 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 10/08/14
 Work Order: 14-10-0602
 Preparation: EPA 3541
 Method: EPA 8270C PEST-SIM
 Units: ug/kg

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| OB-WO-WS-C1-20141008 | 14-10-0602-25-AA | 10/08/14 11:52 | Tissue | GC/MS NNN | 10/11/14 | 11/14/14 10:40 | 141011L04M |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------------------------|----------|----------------|------------|------|------------|
| Alpha Chlordane | 1.0 | 0.20 | 0.067 | 1.00 | |
| Cis-nonachlor | 0.86 | 0.20 | 0.024 | 1.00 | |
| 2,4'-DDD | 0.27 | 0.20 | 0.049 | 1.00 | |
| 2,4'-DDE | 5.4 | 0.20 | 0.048 | 1.00 | |
| 2,4'-DDT | ND | 0.20 | 0.032 | 1.00 | |
| 4,4'-DDD | 2.2 | 0.20 | 0.042 | 1.00 | |
| 4,4'-DDT | 0.19 | 0.20 | 0.081 | 1.00 | J |
| Dieldrin | ND | 0.20 | 0.090 | 1.00 | |
| Gamma Chlordane | 0.14 | 0.20 | 0.046 | 1.00 | J |
| Oxychlordane | ND | 0.20 | 0.076 | 1.00 | |
| Trans-nonachlor | 1.0 | 0.20 | 0.048 | 1.00 | |
| Surrogate | Rec. (%) | Control Limits | Qualifiers | | |
| Dibutylchloredate | 46 | 10-150 | | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 44 | 10-150 | | | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| OB-WO-WS-C1-20141008 | 14-10-0602-25-AA | 10/08/14 11:52 | Tissue | GC/MS NNN | 10/11/14 | 11/14/14 10:22 | 141011L04M |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------------------------|----------|----------------|------------|------|------------|
| 4,4'-DDE | 160 | 10 | 3.5 | 50.0 | |
| Surrogate | Rec. (%) | Control Limits | Qualifiers | | |
| Dibutylchloredate | 63 | 10-150 | | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 41 | 10-150 | | | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 10/08/14
Work Order: 14-10-0602
Preparation: EPA 3541
Method: EPA 8270C PEST-SIM
Units: ug/kg

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| OB-WO-WS-C2-20141008 | 14-10-0602-26-AA | 10/08/14 11:52 | Tissue | GC/MS NNN | 10/11/14 | 11/14/14 11:16 | 141011L04M |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------------------------|----------|----------------|------------|------|------------|
| Alpha Chlordane | 0.82 | 0.20 | 0.067 | 1.00 | |
| Cis-nonachlor | 0.77 | 0.20 | 0.024 | 1.00 | |
| 2,4'-DDD | 0.14 | 0.20 | 0.049 | 1.00 | J |
| 2,4'-DDE | 5.3 | 0.20 | 0.048 | 1.00 | |
| 2,4'-DDT | ND | 0.20 | 0.032 | 1.00 | |
| 4,4'-DDD | 1.9 | 0.20 | 0.042 | 1.00 | |
| 4,4'-DDT | 0.63 | 0.20 | 0.081 | 1.00 | |
| Dieldrin | ND | 0.20 | 0.090 | 1.00 | |
| Gamma Chlordane | 0.11 | 0.20 | 0.046 | 1.00 | J |
| Oxychlordane | ND | 0.20 | 0.076 | 1.00 | |
| Trans-nonachlor | 0.97 | 0.20 | 0.048 | 1.00 | |
| Surrogate | Rec. (%) | Control Limits | Qualifiers | | |
| Dibutylchloredate | 53 | 10-150 | | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 51 | 10-150 | | | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| OB-WO-WS-C2-20141008 | 14-10-0602-26-AA | 10/08/14 11:52 | Tissue | GC/MS NNN | 10/11/14 | 11/14/14 10:58 | 141011L04M |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------------------------|----------|----------------|------------|------|------------|
| 4,4'-DDE | 170 | 10 | 3.5 | 50.0 | |
| Surrogate | Rec. (%) | Control Limits | Qualifiers | | |
| Dibutylchloredate | 68 | 10-150 | | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 51 | 10-150 | | | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 10/08/14
Work Order: 14-10-0602
Preparation: EPA 3541
Method: EPA 8270C PEST-SIM
Units: ug/kg

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| OB-WO-WS-C3-20141008 | 14-10-0602-27-AA | 10/08/14 11:52 | Tissue | GC/MS NNN | 10/11/14 | 11/14/14 11:51 | 141011L04M |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------------------------|----------|----------------|------------|------|------------|
| Alpha Chlordane | 0.40 | 0.20 | 0.067 | 1.00 | |
| Cis-nonachlor | 0.48 | 0.20 | 0.024 | 1.00 | |
| 2,4'-DDD | 0.28 | 0.20 | 0.049 | 1.00 | |
| 2,4'-DDE | 1.7 | 0.20 | 0.048 | 1.00 | |
| 2,4'-DDT | ND | 0.20 | 0.032 | 1.00 | |
| 4,4'-DDD | 0.99 | 0.20 | 0.042 | 1.00 | |
| 4,4'-DDT | 0.26 | 0.20 | 0.081 | 1.00 | |
| Dieldrin | ND | 0.20 | 0.090 | 1.00 | |
| Gamma Chlordane | 0.049 | 0.20 | 0.046 | 1.00 | J |
| Oxychlordane | ND | 0.20 | 0.076 | 1.00 | |
| Trans-nonachlor | 0.57 | 0.20 | 0.048 | 1.00 | |
| Surrogate | Rec. (%) | Control Limits | Qualifiers | | |
| Dibutylchloredate | 51 | 10-150 | | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 45 | 10-150 | | | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| OB-WO-WS-C3-20141008 | 14-10-0602-27-AA | 10/08/14 11:52 | Tissue | GC/MS NNN | 10/11/14 | 11/14/14 11:33 | 141011L04M |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------------------------|----------|----------------|------------|------|------------|
| 4,4'-DDE | 86 | 4.0 | 1.4 | 20.0 | |
| Surrogate | Rec. (%) | Control Limits | Qualifiers | | |
| Dibutylchloredate | 53 | 10-150 | | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 41 | 10-150 | | | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 10/08/14
 Work Order: 14-10-0602
 Preparation: EPA 3541
 Method: EPA 8270C PEST-SIM
 Units: ug/kg

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| Method Blank | 099-16-514-1 | N/A | Tissue | GC/MS NNN | 10/10/14 | 11/13/14 12:37 | 141010L26M |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------------|--------|------|-------|------|------------|
| Alpha Chlordane | ND | 0.20 | 0.067 | 1.00 | |
| Cis-nonachlor | ND | 0.20 | 0.024 | 1.00 | |
| 2,4'-DDD | ND | 0.20 | 0.049 | 1.00 | |
| 2,4'-DDE | ND | 0.20 | 0.048 | 1.00 | |
| 2,4'-DDT | ND | 0.20 | 0.032 | 1.00 | |
| 4,4'-DDD | ND | 0.20 | 0.042 | 1.00 | |
| 4,4'-DDE | ND | 0.20 | 0.071 | 1.00 | |
| 4,4'-DDT | ND | 0.20 | 0.081 | 1.00 | |
| Dieldrin | ND | 0.20 | 0.090 | 1.00 | |
| Gamma Chlordane | ND | 0.20 | 0.046 | 1.00 | |
| Oxychlordane | ND | 0.20 | 0.076 | 1.00 | |
| Trans-nonachlor | ND | 0.20 | 0.048 | 1.00 | |

| Surrogate | Rec. (%) | Control Limits | Qualifiers |
|------------------------------|----------|----------------|------------|
| Dibutylchloredate | 36 | 10-150 | |
| 2,4,5,6-Tetrachloro-m-Xylene | 34 | 10-150 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 10/08/14
Work Order: 14-10-0602
Preparation: EPA 3541
Method: EPA 8270C PEST-SIM
Units: ug/kg

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| Method Blank | 099-16-514-2 | N/A | Tissue | GC/MS NNN | 10/11/14 | 11/13/14 12:55 | 141011L04M |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------------------------|----------|----------------|------------|------|------------|
| Alpha Chlordane | ND | 0.20 | 0.067 | 1.00 | |
| Cis-nonachlor | ND | 0.20 | 0.024 | 1.00 | |
| 2,4'-DDD | ND | 0.20 | 0.049 | 1.00 | |
| 2,4'-DDE | ND | 0.20 | 0.048 | 1.00 | |
| 2,4'-DDT | ND | 0.20 | 0.032 | 1.00 | |
| 4,4'-DDD | ND | 0.20 | 0.042 | 1.00 | |
| 4,4'-DDE | ND | 0.20 | 0.071 | 1.00 | |
| 4,4'-DDT | ND | 0.20 | 0.081 | 1.00 | |
| Dieldrin | ND | 0.20 | 0.090 | 1.00 | |
| Gamma Chlordane | ND | 0.20 | 0.046 | 1.00 | |
| Oxychlordane | ND | 0.20 | 0.076 | 1.00 | |
| Trans-nonachlor | ND | 0.20 | 0.048 | 1.00 | |
| Surrogate | Rec. (%) | Control Limits | Qualifiers | | |
| Dibutylchloredate | 34 | 10-150 | | | |
| 2,4,5,6-Tetrachloro-m-Xylene | 32 | 10-150 | | | |

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 10/08/14
 Work Order: 14-10-0602
 Preparation: EPA 3541
 Method: EPA 8270C PEST-SIM
 Units: ug/kg

Project: GWMA - TMDL Compliance Monitoring

Page 30 of 30

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| Method Blank | 099-16-514-3 | N/A | Tissue | GC/MS NNN | 11/16/14 | 11/18/14 16:20 | 141116L01 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------------|--------|------|-------|------|------------|
| Alpha Chlordane | ND | 0.20 | 0.067 | 1.00 | |
| Cis-nonachlor | ND | 0.20 | 0.024 | 1.00 | |
| 2,4'-DDD | ND | 0.20 | 0.049 | 1.00 | |
| 2,4'-DDE | ND | 0.20 | 0.048 | 1.00 | |
| 2,4'-DDT | ND | 0.20 | 0.032 | 1.00 | |
| 4,4'-DDD | ND | 0.20 | 0.042 | 1.00 | |
| 4,4'-DDE | ND | 0.20 | 0.071 | 1.00 | |
| 4,4'-DDT | ND | 0.20 | 0.081 | 1.00 | |
| Dieldrin | ND | 0.20 | 0.090 | 1.00 | |
| Gamma Chlordane | ND | 0.20 | 0.046 | 1.00 | |
| Oxychlordane | ND | 0.20 | 0.076 | 1.00 | |
| Trans-nonachlor | ND | 0.20 | 0.048 | 1.00 | |

| Surrogate | Rec. (%) | Control Limits | Qualifiers |
|------------------------------|----------|----------------|------------|
| Dibutylchloredate | 55 | 10-150 | |
| 2,4,5,6-Tetrachloro-m-Xylene | 60 | 10-150 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 10/08/14
Work Order: 14-10-0602
Preparation: EPA 3541
Method: EPA 8270C SIM PCB Congeners
Units: ug/kg

Project: GWMA - TMDL Compliance Monitoring

Page 1 of 58

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| CP-FF-CH-C1-20141008 | 14-10-0602-1-AA | 10/08/14 11:37 | Tissue | GC/MS NNN | 10/10/14 | 10/17/14 18:27 | 141010L26 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------|--------|------|-------|------|------------|
| PCB018 | 0.071 | 0.20 | 0.039 | 1.00 | J |
| PCB028 | 0.070 | 0.20 | 0.055 | 1.00 | J |
| PCB037 | ND | 0.20 | 0.035 | 1.00 | |
| PCB044 | ND | 0.20 | 0.092 | 1.00 | |
| PCB049 | 0.27 | 0.20 | 0.086 | 1.00 | |
| PCB052 | 0.28 | 0.20 | 0.051 | 1.00 | |
| PCB066 | 0.28 | 0.20 | 0.075 | 1.00 | |
| PCB070 | 0.13 | 0.20 | 0.048 | 1.00 | J |
| PCB074 | 0.14 | 0.20 | 0.046 | 1.00 | J |
| PCB077 | ND | 0.20 | 0.085 | 1.00 | |
| PCB081 | ND | 0.20 | 0.064 | 1.00 | |
| PCB087 | 0.34 | 0.20 | 0.041 | 1.00 | |
| PCB099 | 0.49 | 0.20 | 0.054 | 1.00 | |
| PCB101 | 0.82 | 0.20 | 0.051 | 1.00 | |
| PCB105 | 0.28 | 0.20 | 0.042 | 1.00 | |
| PCB110 | 0.54 | 0.20 | 0.046 | 1.00 | |
| PCB114 | ND | 0.20 | 0.036 | 1.00 | |
| PCB118 | 0.89 | 0.20 | 0.059 | 1.00 | |
| PCB119 | ND | 0.20 | 0.046 | 1.00 | |
| PCB123 | 0.095 | 0.20 | 0.047 | 1.00 | J |
| PCB126 | ND | 0.20 | 0.034 | 1.00 | |
| PCB128 | 0.21 | 0.20 | 0.039 | 1.00 | |
| PCB132/153 | 1.9 | 0.40 | 0.067 | 1.00 | |
| PCB138/158 | 1.3 | 0.40 | 0.075 | 1.00 | |
| PCB149 | 0.58 | 0.20 | 0.048 | 1.00 | |
| PCB151 | 0.21 | 0.20 | 0.062 | 1.00 | |
| PCB156 | 0.11 | 0.20 | 0.066 | 1.00 | J |
| PCB157 | 0.053 | 0.20 | 0.051 | 1.00 | J |
| PCB167 | 0.088 | 0.20 | 0.042 | 1.00 | J |
| PCB168 | ND | 0.20 | 0.045 | 1.00 | |
| PCB169 | 0.040 | 0.20 | 0.033 | 1.00 | J |
| PCB170 | 0.25 | 0.20 | 0.050 | 1.00 | |
| PCB177 | 0.11 | 0.20 | 0.040 | 1.00 | J |
| PCB180 | 0.53 | 0.20 | 0.030 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 10/08/14
 Work Order: 14-10-0602
 Preparation: EPA 3541
 Method: EPA 8270C SIM PCB Congeners
 Units: ug/kg

Project: GWMA - TMDL Compliance Monitoring

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| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|-----------------|-----------------------|-------------------|-----------|-------------------|
| PCB183 | 0.19 | 0.20 | 0.032 | 1.00 | J |
| PCB187 | 0.52 | 0.20 | 0.039 | 1.00 | |
| PCB189 | 0.036 | 0.20 | 0.025 | 1.00 | J |
| PCB194 | 0.12 | 0.20 | 0.041 | 1.00 | J |
| PCB195 | ND | 0.20 | 0.032 | 1.00 | |
| PCB201 | 0.044 | 0.20 | 0.044 | 1.00 | J |
| PCB206 | 0.077 | 0.20 | 0.045 | 1.00 | J |
| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> | | |
| 2-Fluorobiphenyl | 56 | 10-150 | | | |
| p-Terphenyl-d14 | 55 | 10-150 | | | |

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 10/08/14
Work Order: 14-10-0602
Preparation: EPA 3541
Method: EPA 8270C SIM PCB Congeners
Units: ug/kg

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| CP-FF-CH-C2-20141008 | 14-10-0602-2-AA | 10/08/14 11:37 | Tissue | GC/MS NNN | 10/10/14 | 10/17/14 18:51 | 141010L26 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------|--------|------|-------|------|------------|
| PCB018 | 0.057 | 0.20 | 0.039 | 1.00 | J |
| PCB028 | 0.12 | 0.20 | 0.055 | 1.00 | J |
| PCB037 | ND | 0.20 | 0.035 | 1.00 | |
| PCB044 | ND | 0.20 | 0.092 | 1.00 | |
| PCB049 | 0.21 | 0.20 | 0.086 | 1.00 | |
| PCB052 | 0.30 | 0.20 | 0.051 | 1.00 | |
| PCB066 | 0.21 | 0.20 | 0.075 | 1.00 | |
| PCB070 | 0.062 | 0.20 | 0.048 | 1.00 | J |
| PCB074 | 0.077 | 0.20 | 0.046 | 1.00 | J |
| PCB077 | ND | 0.20 | 0.085 | 1.00 | |
| PCB081 | ND | 0.20 | 0.064 | 1.00 | |
| PCB087 | 0.28 | 0.20 | 0.041 | 1.00 | |
| PCB099 | 0.47 | 0.20 | 0.054 | 1.00 | |
| PCB101 | 0.81 | 0.20 | 0.051 | 1.00 | |
| PCB105 | 0.28 | 0.20 | 0.042 | 1.00 | |
| PCB110 | 0.52 | 0.20 | 0.046 | 1.00 | |
| PCB114 | ND | 0.20 | 0.036 | 1.00 | |
| PCB118 | 0.76 | 0.20 | 0.059 | 1.00 | |
| PCB119 | ND | 0.20 | 0.046 | 1.00 | |
| PCB123 | 0.11 | 0.20 | 0.047 | 1.00 | J |
| PCB126 | ND | 0.20 | 0.034 | 1.00 | |
| PCB128 | 0.22 | 0.20 | 0.039 | 1.00 | |
| PCB132/153 | 1.7 | 0.40 | 0.067 | 1.00 | |
| PCB138/158 | 1.2 | 0.40 | 0.075 | 1.00 | |
| PCB149 | 0.53 | 0.20 | 0.048 | 1.00 | |
| PCB151 | 0.22 | 0.20 | 0.062 | 1.00 | |
| PCB156 | 0.088 | 0.20 | 0.066 | 1.00 | J |
| PCB157 | ND | 0.20 | 0.051 | 1.00 | |
| PCB167 | ND | 0.20 | 0.042 | 1.00 | |
| PCB168 | ND | 0.20 | 0.045 | 1.00 | |
| PCB169 | 0.045 | 0.20 | 0.033 | 1.00 | J |
| PCB170 | 0.20 | 0.20 | 0.050 | 1.00 | |
| PCB177 | 0.12 | 0.20 | 0.040 | 1.00 | J |
| PCB180 | 0.46 | 0.20 | 0.030 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 10/08/14
 Work Order: 14-10-0602
 Preparation: EPA 3541
 Method: EPA 8270C SIM PCB Congeners
 Units: ug/kg

Project: GWMA - TMDL Compliance Monitoring

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| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|-----------------|-----------------------|-------------------|-----------|-------------------|
| PCB183 | 0.15 | 0.20 | 0.032 | 1.00 | J |
| PCB187 | 0.45 | 0.20 | 0.039 | 1.00 | |
| PCB189 | ND | 0.20 | 0.025 | 1.00 | |
| PCB194 | 0.083 | 0.20 | 0.041 | 1.00 | J |
| PCB195 | ND | 0.20 | 0.032 | 1.00 | |
| PCB201 | ND | 0.20 | 0.044 | 1.00 | |
| PCB206 | 0.11 | 0.20 | 0.045 | 1.00 | J |
| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> | | |
| 2-Fluorobiphenyl | 51 | 10-150 | | | |
| p-Terphenyl-d14 | 47 | 10-150 | | | |


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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 10/08/14
Work Order: 14-10-0602
Preparation: EPA 3541
Method: EPA 8270C SIM PCB Congeners
Units: ug/kg

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| CP-FF-CH-C3-20141008 | 14-10-0602-3-AA | 10/08/14 11:37 | Tissue | GC/MS NNN | 10/10/14 | 10/17/14 19:14 | 141010L26 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------|--------|------|-------|------|------------|
| PCB018 | 0.085 | 0.20 | 0.039 | 1.00 | J |
| PCB028 | 0.078 | 0.20 | 0.055 | 1.00 | J |
| PCB037 | ND | 0.20 | 0.035 | 1.00 | |
| PCB044 | ND | 0.20 | 0.092 | 1.00 | |
| PCB049 | 0.27 | 0.20 | 0.086 | 1.00 | |
| PCB052 | 0.33 | 0.20 | 0.051 | 1.00 | |
| PCB066 | 0.25 | 0.20 | 0.075 | 1.00 | |
| PCB070 | 0.11 | 0.20 | 0.048 | 1.00 | J |
| PCB074 | 0.13 | 0.20 | 0.046 | 1.00 | J |
| PCB077 | ND | 0.20 | 0.085 | 1.00 | |
| PCB081 | ND | 0.20 | 0.064 | 1.00 | |
| PCB087 | 0.17 | 0.20 | 0.041 | 1.00 | J |
| PCB099 | 0.53 | 0.20 | 0.054 | 1.00 | |
| PCB101 | 0.75 | 0.20 | 0.051 | 1.00 | |
| PCB105 | 0.27 | 0.20 | 0.042 | 1.00 | |
| PCB110 | 0.48 | 0.20 | 0.046 | 1.00 | |
| PCB114 | ND | 0.20 | 0.036 | 1.00 | |
| PCB118 | 0.71 | 0.20 | 0.059 | 1.00 | |
| PCB119 | ND | 0.20 | 0.046 | 1.00 | |
| PCB123 | 0.067 | 0.20 | 0.047 | 1.00 | J |
| PCB126 | ND | 0.20 | 0.034 | 1.00 | |
| PCB128 | 0.21 | 0.20 | 0.039 | 1.00 | |
| PCB132/153 | 1.8 | 0.40 | 0.067 | 1.00 | |
| PCB138/158 | 1.1 | 0.40 | 0.075 | 1.00 | |
| PCB149 | 0.42 | 0.20 | 0.048 | 1.00 | |
| PCB151 | 0.17 | 0.20 | 0.062 | 1.00 | J |
| PCB156 | 0.078 | 0.20 | 0.066 | 1.00 | J |
| PCB157 | ND | 0.20 | 0.051 | 1.00 | |
| PCB167 | 0.049 | 0.20 | 0.042 | 1.00 | J |
| PCB168 | ND | 0.20 | 0.045 | 1.00 | |
| PCB169 | ND | 0.20 | 0.033 | 1.00 | |
| PCB170 | 0.18 | 0.20 | 0.050 | 1.00 | J |
| PCB177 | 0.10 | 0.20 | 0.040 | 1.00 | J |
| PCB180 | 0.44 | 0.20 | 0.030 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 10/08/14
 Work Order: 14-10-0602
 Preparation: EPA 3541
 Method: EPA 8270C SIM PCB Congeners
 Units: ug/kg

Project: GWMA - TMDL Compliance Monitoring

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| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|-----------------|-----------------------|-------------------|-----------|-------------------|
| PCB183 | 0.14 | 0.20 | 0.032 | 1.00 | J |
| PCB187 | 0.43 | 0.20 | 0.039 | 1.00 | |
| PCB189 | ND | 0.20 | 0.025 | 1.00 | |
| PCB194 | 0.090 | 0.20 | 0.041 | 1.00 | J |
| PCB195 | ND | 0.20 | 0.032 | 1.00 | |
| PCB201 | ND | 0.20 | 0.044 | 1.00 | |
| PCB206 | 0.065 | 0.20 | 0.045 | 1.00 | J |
| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> | | |
| 2-Fluorobiphenyl | 52 | 10-150 | | | |
| p-Terphenyl-d14 | 53 | 10-150 | | | |


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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 10/08/14
Work Order: 14-10-0602
Preparation: EPA 3541
Method: EPA 8270C SIM PCB Congeners
Units: ug/kg

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| CP-FF-WC-C1-20141008 | 14-10-0602-4-AA | 10/08/14 11:26 | Tissue | GC/MS NNN | 10/10/14 | 10/17/14 19:38 | 141010L26 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------|--------|------|-------|------|------------|
| PCB018 | 0.39 | 0.20 | 0.039 | 1.00 | |
| PCB028 | 0.79 | 0.20 | 0.055 | 1.00 | |
| PCB037 | 0.12 | 0.20 | 0.035 | 1.00 | J |
| PCB044 | 1.1 | 0.20 | 0.092 | 1.00 | |
| PCB049 | 1.4 | 0.20 | 0.086 | 1.00 | |
| PCB052 | 1.7 | 0.20 | 0.051 | 1.00 | |
| PCB066 | 1.7 | 0.20 | 0.075 | 1.00 | |
| PCB070 | 1.2 | 0.20 | 0.048 | 1.00 | |
| PCB074 | 0.90 | 0.20 | 0.046 | 1.00 | |
| PCB077 | 0.51 | 0.20 | 0.085 | 1.00 | |
| PCB081 | ND | 0.20 | 0.064 | 1.00 | |
| PCB087 | 2.4 | 0.20 | 0.041 | 1.00 | |
| PCB099 | 2.8 | 0.20 | 0.054 | 1.00 | |
| PCB101 | 4.9 | 0.20 | 0.051 | 1.00 | |
| PCB105 | 1.6 | 0.20 | 0.042 | 1.00 | |
| PCB110 | 3.3 | 0.20 | 0.046 | 1.00 | |
| PCB114 | 0.093 | 0.20 | 0.036 | 1.00 | J |
| PCB118 | 4.7 | 0.20 | 0.059 | 1.00 | |
| PCB119 | 0.18 | 0.20 | 0.046 | 1.00 | J |
| PCB123 | 0.44 | 0.20 | 0.047 | 1.00 | |
| PCB126 | 0.052 | 0.20 | 0.034 | 1.00 | J |
| PCB128 | 1.1 | 0.20 | 0.039 | 1.00 | |
| PCB132/153 | 9.4 | 0.40 | 0.067 | 1.00 | |
| PCB138/158 | 6.4 | 0.40 | 0.075 | 1.00 | |
| PCB149 | 3.5 | 0.20 | 0.048 | 1.00 | |
| PCB151 | 1.1 | 0.20 | 0.062 | 1.00 | |
| PCB156 | 0.51 | 0.20 | 0.066 | 1.00 | |
| PCB157 | 0.12 | 0.20 | 0.051 | 1.00 | J |
| PCB167 | 0.26 | 0.20 | 0.042 | 1.00 | |
| PCB168 | ND | 0.20 | 0.045 | 1.00 | |
| PCB169 | 0.18 | 0.20 | 0.033 | 1.00 | J |
| PCB170 | 1.1 | 0.20 | 0.050 | 1.00 | |
| PCB177 | 0.56 | 0.20 | 0.040 | 1.00 | |
| PCB180 | 2.7 | 0.20 | 0.030 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 10/08/14
Work Order: 14-10-0602
Preparation: EPA 3541
Method: EPA 8270C SIM PCB Congeners
Units: ug/kg

Project: GWMA - TMDL Compliance Monitoring

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| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|-----------------|-----------------------|-------------------|-----------|-------------------|
| PCB183 | 0.82 | 0.20 | 0.032 | 1.00 | |
| PCB187 | 2.2 | 0.20 | 0.039 | 1.00 | |
| PCB189 | 0.045 | 0.20 | 0.025 | 1.00 | J |
| PCB194 | 0.41 | 0.20 | 0.041 | 1.00 | |
| PCB195 | 0.17 | 0.20 | 0.032 | 1.00 | J |
| PCB201 | 0.12 | 0.20 | 0.044 | 1.00 | J |
| PCB206 | 0.24 | 0.20 | 0.045 | 1.00 | |
| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> | | |
| 2-Fluorobiphenyl | 50 | 10-150 | | | |
| p-Terphenyl-d14 | 49 | 10-150 | | | |


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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 10/08/14
Work Order: 14-10-0602
Preparation: EPA 3541
Method: EPA 8270C SIM PCB Congeners
Units: ug/kg

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| CP-FF-WC-C2-20141008 | 14-10-0602-5-AA | 10/08/14 11:26 | Tissue | GC/MS NNN | 10/10/14 | 10/17/14 20:01 | 141010L26 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------|--------|------|-------|------|------------|
| PCB018 | 0.29 | 0.20 | 0.039 | 1.00 | |
| PCB028 | 0.78 | 0.20 | 0.055 | 1.00 | |
| PCB037 | ND | 0.20 | 0.035 | 1.00 | |
| PCB044 | 1.1 | 0.20 | 0.092 | 1.00 | |
| PCB049 | 1.4 | 0.20 | 0.086 | 1.00 | |
| PCB052 | 1.7 | 0.20 | 0.051 | 1.00 | |
| PCB066 | 1.7 | 0.20 | 0.075 | 1.00 | |
| PCB070 | 1.3 | 0.20 | 0.048 | 1.00 | |
| PCB074 | 0.95 | 0.20 | 0.046 | 1.00 | |
| PCB077 | 0.60 | 0.20 | 0.085 | 1.00 | |
| PCB081 | ND | 0.20 | 0.064 | 1.00 | |
| PCB087 | 2.6 | 0.20 | 0.041 | 1.00 | |
| PCB099 | 3.3 | 0.20 | 0.054 | 1.00 | |
| PCB101 | 5.2 | 0.20 | 0.051 | 1.00 | |
| PCB105 | 1.7 | 0.20 | 0.042 | 1.00 | |
| PCB110 | 3.8 | 0.20 | 0.046 | 1.00 | |
| PCB114 | ND | 0.20 | 0.036 | 1.00 | |
| PCB118 | 5.2 | 0.20 | 0.059 | 1.00 | |
| PCB119 | 0.18 | 0.20 | 0.046 | 1.00 | J |
| PCB123 | 0.54 | 0.20 | 0.047 | 1.00 | |
| PCB126 | ND | 0.20 | 0.034 | 1.00 | |
| PCB128 | 1.2 | 0.20 | 0.039 | 1.00 | |
| PCB132/153 | 11 | 0.40 | 0.067 | 1.00 | |
| PCB138/158 | 7.3 | 0.40 | 0.075 | 1.00 | |
| PCB149 | 3.9 | 0.20 | 0.048 | 1.00 | |
| PCB151 | 1.2 | 0.20 | 0.062 | 1.00 | |
| PCB156 | 0.54 | 0.20 | 0.066 | 1.00 | |
| PCB157 | 0.14 | 0.20 | 0.051 | 1.00 | J |
| PCB167 | 0.36 | 0.20 | 0.042 | 1.00 | |
| PCB168 | ND | 0.20 | 0.045 | 1.00 | |
| PCB169 | 0.16 | 0.20 | 0.033 | 1.00 | J |
| PCB170 | 1.0 | 0.20 | 0.050 | 1.00 | |
| PCB177 | 0.64 | 0.20 | 0.040 | 1.00 | |
| PCB180 | 2.6 | 0.20 | 0.030 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 10/08/14
Work Order: 14-10-0602
Preparation: EPA 3541
Method: EPA 8270C SIM PCB Congeners
Units: ug/kg

Project: GWMA - TMDL Compliance Monitoring

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| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|-----------------|-----------------------|-------------------|-----------|-------------------|
| PCB183 | 0.86 | 0.20 | 0.032 | 1.00 | |
| PCB187 | 2.3 | 0.20 | 0.039 | 1.00 | |
| PCB189 | 0.035 | 0.20 | 0.025 | 1.00 | J |
| PCB194 | 0.42 | 0.20 | 0.041 | 1.00 | |
| PCB195 | 0.15 | 0.20 | 0.032 | 1.00 | J |
| PCB201 | 0.11 | 0.20 | 0.044 | 1.00 | J |
| PCB206 | 0.24 | 0.20 | 0.045 | 1.00 | |
| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> | | |
| 2-Fluorobiphenyl | 53 | 10-150 | | | |
| p-Terphenyl-d14 | 55 | 10-150 | | | |

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 10/08/14
Work Order: 14-10-0602
Preparation: EPA 3541
Method: EPA 8270C SIM PCB Congeners
Units: ug/kg

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| CP-FF-WC-C3-20141008 | 14-10-0602-6-AA | 10/08/14 11:26 | Tissue | GC/MS NNN | 10/10/14 | 10/17/14 20:25 | 141010L26 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------|--------|------|-------|------|------------|
| PCB018 | 0.36 | 0.20 | 0.039 | 1.00 | |
| PCB028 | 0.85 | 0.20 | 0.055 | 1.00 | |
| PCB037 | 0.081 | 0.20 | 0.035 | 1.00 | J |
| PCB044 | 1.2 | 0.20 | 0.092 | 1.00 | |
| PCB049 | 1.7 | 0.20 | 0.086 | 1.00 | |
| PCB052 | 1.6 | 0.20 | 0.051 | 1.00 | |
| PCB066 | 1.8 | 0.20 | 0.075 | 1.00 | |
| PCB070 | 1.3 | 0.20 | 0.048 | 1.00 | |
| PCB074 | 1.0 | 0.20 | 0.046 | 1.00 | |
| PCB077 | 0.43 | 0.20 | 0.085 | 1.00 | |
| PCB081 | ND | 0.20 | 0.064 | 1.00 | |
| PCB087 | 2.1 | 0.20 | 0.041 | 1.00 | |
| PCB099 | 3.1 | 0.20 | 0.054 | 1.00 | |
| PCB101 | 4.4 | 0.20 | 0.051 | 1.00 | |
| PCB105 | 1.6 | 0.20 | 0.042 | 1.00 | |
| PCB110 | 3.3 | 0.20 | 0.046 | 1.00 | |
| PCB114 | 0.11 | 0.20 | 0.036 | 1.00 | J |
| PCB118 | 4.6 | 0.20 | 0.059 | 1.00 | |
| PCB119 | 0.17 | 0.20 | 0.046 | 1.00 | J |
| PCB123 | 0.49 | 0.20 | 0.047 | 1.00 | |
| PCB126 | ND | 0.20 | 0.034 | 1.00 | |
| PCB128 | 1.0 | 0.20 | 0.039 | 1.00 | |
| PCB132/153 | 9.0 | 0.40 | 0.067 | 1.00 | |
| PCB138/158 | 6.2 | 0.40 | 0.075 | 1.00 | |
| PCB149 | 3.2 | 0.20 | 0.048 | 1.00 | |
| PCB151 | 0.95 | 0.20 | 0.062 | 1.00 | |
| PCB156 | 0.47 | 0.20 | 0.066 | 1.00 | |
| PCB157 | 0.14 | 0.20 | 0.051 | 1.00 | J |
| PCB167 | 0.33 | 0.20 | 0.042 | 1.00 | |
| PCB168 | ND | 0.20 | 0.045 | 1.00 | |
| PCB169 | 0.15 | 0.20 | 0.033 | 1.00 | J |
| PCB170 | 0.93 | 0.20 | 0.050 | 1.00 | |
| PCB177 | 0.51 | 0.20 | 0.040 | 1.00 | |
| PCB180 | 2.0 | 0.20 | 0.030 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 10/08/14
 Work Order: 14-10-0602
 Preparation: EPA 3541
 Method: EPA 8270C SIM PCB Congeners
 Units: ug/kg

Project: GWMA - TMDL Compliance Monitoring

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| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|-----------------|-----------------------|-------------------|-----------|-------------------|
| PCB183 | 0.62 | 0.20 | 0.032 | 1.00 | |
| PCB187 | 2.0 | 0.20 | 0.039 | 1.00 | |
| PCB189 | 0.059 | 0.20 | 0.025 | 1.00 | J |
| PCB194 | 0.35 | 0.20 | 0.041 | 1.00 | |
| PCB195 | 0.14 | 0.20 | 0.032 | 1.00 | J |
| PCB201 | 0.085 | 0.20 | 0.044 | 1.00 | J |
| PCB206 | 0.25 | 0.20 | 0.045 | 1.00 | |
| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> | | |
| 2-Fluorobiphenyl | 52 | 10-150 | | | |
| p-Terphenyl-d14 | 53 | 10-150 | | | |


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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 10/08/14
Work Order: 14-10-0602
Preparation: EPA 3541
Method: EPA 8270C SIM PCB Congeners
Units: ug/kg

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| CP-WO-WS-C1-20141008 | 14-10-0602-7-AA | 10/08/14 11:14 | Tissue | GC/MS NNN | 10/10/14 | 10/17/14 20:48 | 141010L26 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------|--------|------|-------|------|------------|
| PCB018 | 0.10 | 0.20 | 0.039 | 1.00 | J |
| PCB028 | 0.66 | 0.20 | 0.055 | 1.00 | |
| PCB037 | ND | 0.20 | 0.035 | 1.00 | |
| PCB044 | 0.26 | 0.20 | 0.092 | 1.00 | |
| PCB049 | 0.90 | 0.20 | 0.086 | 1.00 | |
| PCB052 | 1.6 | 0.20 | 0.051 | 1.00 | |
| PCB066 | 1.3 | 0.20 | 0.075 | 1.00 | |
| PCB070 | 1.3 | 0.20 | 0.048 | 1.00 | |
| PCB074 | 0.88 | 0.20 | 0.046 | 1.00 | |
| PCB077 | 0.38 | 0.20 | 0.085 | 1.00 | |
| PCB081 | ND | 0.20 | 0.064 | 1.00 | |
| PCB087 | 1.9 | 0.20 | 0.041 | 1.00 | |
| PCB099 | 3.3 | 0.20 | 0.054 | 1.00 | |
| PCB101 | 4.1 | 0.20 | 0.051 | 1.00 | |
| PCB105 | 1.8 | 0.20 | 0.042 | 1.00 | |
| PCB110 | 1.5 | 0.20 | 0.046 | 1.00 | |
| PCB114 | ND | 0.20 | 0.036 | 1.00 | |
| PCB118 | 5.4 | 0.20 | 0.059 | 1.00 | |
| PCB119 | 0.16 | 0.20 | 0.046 | 1.00 | J |
| PCB123 | 0.77 | 0.20 | 0.047 | 1.00 | |
| PCB126 | ND | 0.20 | 0.034 | 1.00 | |
| PCB128 | 0.96 | 0.20 | 0.039 | 1.00 | |
| PCB132/153 | 10 | 0.40 | 0.067 | 1.00 | |
| PCB138/158 | 7.1 | 0.40 | 0.075 | 1.00 | |
| PCB149 | 1.4 | 0.20 | 0.048 | 1.00 | |
| PCB151 | 0.87 | 0.20 | 0.062 | 1.00 | |
| PCB156 | 0.62 | 0.20 | 0.066 | 1.00 | |
| PCB157 | 0.15 | 0.20 | 0.051 | 1.00 | J |
| PCB167 | 0.38 | 0.20 | 0.042 | 1.00 | |
| PCB168 | ND | 0.20 | 0.045 | 1.00 | |
| PCB169 | 0.13 | 0.20 | 0.033 | 1.00 | J |
| PCB170 | 1.1 | 0.20 | 0.050 | 1.00 | |
| PCB177 | 0.42 | 0.20 | 0.040 | 1.00 | |
| PCB180 | 2.6 | 0.20 | 0.030 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 10/08/14
 Work Order: 14-10-0602
 Preparation: EPA 3541
 Method: EPA 8270C SIM PCB Congeners
 Units: ug/kg

Project: GWMA - TMDL Compliance Monitoring

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| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|-----------------|-----------------------|-------------------|-----------|-------------------|
| PCB183 | 0.83 | 0.20 | 0.032 | 1.00 | |
| PCB187 | 2.0 | 0.20 | 0.039 | 1.00 | |
| PCB189 | 0.083 | 0.20 | 0.025 | 1.00 | J |
| PCB194 | 0.36 | 0.20 | 0.041 | 1.00 | |
| PCB195 | 0.15 | 0.20 | 0.032 | 1.00 | J |
| PCB201 | 0.10 | 0.20 | 0.044 | 1.00 | J |
| PCB206 | 0.25 | 0.20 | 0.045 | 1.00 | |
| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> | | |
| 2-Fluorobiphenyl | 46 | 10-150 | | | |
| p-Terphenyl-d14 | 49 | 10-150 | | | |


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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 10/08/14
Work Order: 14-10-0602
Preparation: EPA 3541
Method: EPA 8270C SIM PCB Congeners
Units: ug/kg

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| CP-WO-WS-C2-20141008 | 14-10-0602-8-AA | 10/08/14 11:14 | Tissue | GC/MS NNN | 10/10/14 | 10/17/14 21:12 | 141010L26 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------|--------|------|-------|------|------------|
| PCB018 | 0.066 | 0.20 | 0.039 | 1.00 | J |
| PCB028 | 0.46 | 0.20 | 0.055 | 1.00 | |
| PCB037 | ND | 0.20 | 0.035 | 1.00 | |
| PCB044 | 0.19 | 0.20 | 0.092 | 1.00 | J |
| PCB049 | 0.87 | 0.20 | 0.086 | 1.00 | |
| PCB052 | 1.3 | 0.20 | 0.051 | 1.00 | |
| PCB066 | 1.7 | 0.20 | 0.075 | 1.00 | |
| PCB070 | 1.1 | 0.20 | 0.048 | 1.00 | |
| PCB074 | 1.1 | 0.20 | 0.046 | 1.00 | |
| PCB077 | 0.23 | 0.20 | 0.085 | 1.00 | |
| PCB081 | ND | 0.20 | 0.064 | 1.00 | |
| PCB087 | 0.99 | 0.20 | 0.041 | 1.00 | |
| PCB099 | 2.4 | 0.20 | 0.054 | 1.00 | |
| PCB101 | 2.5 | 0.20 | 0.051 | 1.00 | |
| PCB105 | 1.2 | 0.20 | 0.042 | 1.00 | |
| PCB110 | 0.50 | 0.20 | 0.046 | 1.00 | |
| PCB114 | ND | 0.20 | 0.036 | 1.00 | |
| PCB118 | 4.0 | 0.20 | 0.059 | 1.00 | |
| PCB119 | 0.10 | 0.20 | 0.046 | 1.00 | J |
| PCB123 | 0.44 | 0.20 | 0.047 | 1.00 | |
| PCB126 | ND | 0.20 | 0.034 | 1.00 | |
| PCB128 | 0.54 | 0.20 | 0.039 | 1.00 | |
| PCB132/153 | 5.5 | 0.40 | 0.067 | 1.00 | |
| PCB138/158 | 3.8 | 0.40 | 0.075 | 1.00 | |
| PCB149 | 0.61 | 0.20 | 0.048 | 1.00 | |
| PCB151 | 0.40 | 0.20 | 0.062 | 1.00 | |
| PCB156 | 0.35 | 0.20 | 0.066 | 1.00 | |
| PCB157 | 0.087 | 0.20 | 0.051 | 1.00 | J |
| PCB167 | 0.22 | 0.20 | 0.042 | 1.00 | |
| PCB168 | ND | 0.20 | 0.045 | 1.00 | |
| PCB169 | 0.091 | 0.20 | 0.033 | 1.00 | J |
| PCB170 | 0.63 | 0.20 | 0.050 | 1.00 | |
| PCB177 | 0.20 | 0.20 | 0.040 | 1.00 | |
| PCB180 | 1.5 | 0.20 | 0.030 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 10/08/14
 Work Order: 14-10-0602
 Preparation: EPA 3541
 Method: EPA 8270C SIM PCB Congeners
 Units: ug/kg

Project: GWMA - TMDL Compliance Monitoring

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| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|-----------------|-----------------------|-------------------|-----------|-------------------|
| PCB183 | 0.44 | 0.20 | 0.032 | 1.00 | |
| PCB187 | 1.0 | 0.20 | 0.039 | 1.00 | |
| PCB189 | 0.037 | 0.20 | 0.025 | 1.00 | J |
| PCB194 | 0.19 | 0.20 | 0.041 | 1.00 | J |
| PCB195 | 0.092 | 0.20 | 0.032 | 1.00 | J |
| PCB201 | 0.083 | 0.20 | 0.044 | 1.00 | J |
| PCB206 | 0.21 | 0.20 | 0.045 | 1.00 | |
| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> | | |
| 2-Fluorobiphenyl | 23 | 10-150 | | | |
| p-Terphenyl-d14 | 24 | 10-150 | | | |

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 10/08/14
Work Order: 14-10-0602
Preparation: EPA 3541
Method: EPA 8270C SIM PCB Congeners
Units: ug/kg

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| CP-WO-WS-C3-20141008 | 14-10-0602-9-AA | 10/08/14 11:14 | Tissue | GC/MS NNN | 10/10/14 | 10/18/14 13:40 | 141010L26 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------|--------|------|-------|------|------------|
| PCB018 | 0.11 | 0.20 | 0.039 | 1.00 | J |
| PCB028 | 0.32 | 0.20 | 0.055 | 1.00 | |
| PCB037 | 0.072 | 0.20 | 0.035 | 1.00 | J |
| PCB044 | 0.15 | 0.20 | 0.092 | 1.00 | J |
| PCB049 | 0.44 | 0.20 | 0.086 | 1.00 | |
| PCB052 | 0.81 | 0.20 | 0.051 | 1.00 | |
| PCB066 | 0.77 | 0.20 | 0.075 | 1.00 | |
| PCB070 | 0.65 | 0.20 | 0.048 | 1.00 | |
| PCB074 | 0.54 | 0.20 | 0.046 | 1.00 | |
| PCB077 | 0.16 | 0.20 | 0.085 | 1.00 | J |
| PCB081 | ND | 0.20 | 0.064 | 1.00 | |
| PCB087 | 1.0 | 0.20 | 0.041 | 1.00 | |
| PCB099 | 2.1 | 0.20 | 0.054 | 1.00 | |
| PCB101 | 2.6 | 0.20 | 0.051 | 1.00 | |
| PCB105 | 1.2 | 0.20 | 0.042 | 1.00 | |
| PCB110 | 0.77 | 0.20 | 0.046 | 1.00 | |
| PCB114 | ND | 0.20 | 0.036 | 1.00 | |
| PCB118 | 3.9 | 0.20 | 0.059 | 1.00 | |
| PCB119 | 0.12 | 0.20 | 0.046 | 1.00 | J |
| PCB123 | 0.55 | 0.20 | 0.047 | 1.00 | |
| PCB126 | 0.074 | 0.20 | 0.034 | 1.00 | J |
| PCB128 | 0.69 | 0.20 | 0.039 | 1.00 | |
| PCB132/153 | 7.8 | 0.40 | 0.067 | 1.00 | |
| PCB138/158 | 5.1 | 0.40 | 0.075 | 1.00 | |
| PCB149 | 0.66 | 0.20 | 0.048 | 1.00 | |
| PCB151 | 0.54 | 0.20 | 0.062 | 1.00 | |
| PCB156 | 0.51 | 0.20 | 0.066 | 1.00 | |
| PCB157 | 0.13 | 0.20 | 0.051 | 1.00 | J |
| PCB167 | 0.36 | 0.20 | 0.042 | 1.00 | |
| PCB168 | ND | 0.20 | 0.045 | 1.00 | |
| PCB169 | 0.14 | 0.20 | 0.033 | 1.00 | J |
| PCB170 | 1.0 | 0.20 | 0.050 | 1.00 | |
| PCB177 | 0.26 | 0.20 | 0.040 | 1.00 | |
| PCB180 | 2.0 | 0.20 | 0.030 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 10/08/14
 Work Order: 14-10-0602
 Preparation: EPA 3541
 Method: EPA 8270C SIM PCB Congeners
 Units: ug/kg

Project: GWMA - TMDL Compliance Monitoring

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| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|-----------------|-----------------------|-------------------|-----------|-------------------|
| PCB183 | 0.72 | 0.20 | 0.032 | 1.00 | |
| PCB187 | 1.5 | 0.20 | 0.039 | 1.00 | |
| PCB189 | 0.096 | 0.20 | 0.025 | 1.00 | J |
| PCB194 | 0.34 | 0.20 | 0.041 | 1.00 | |
| PCB195 | 0.11 | 0.20 | 0.032 | 1.00 | J |
| PCB201 | 0.10 | 0.20 | 0.044 | 1.00 | J |
| PCB206 | 0.15 | 0.20 | 0.045 | 1.00 | J |
| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> | | |
| 2-Fluorobiphenyl | 41 | 10-150 | | | |
| p-Terphenyl-d14 | 38 | 10-150 | | | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 10/08/14
Work Order: 14-10-0602
Preparation: EPA 3541
Method: EPA 8270C SIM PCB Congeners
Units: ug/kg

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| SP-FF-CH-C1-20141008 | 14-10-0602-10-AA | 10/08/14 12:10 | Tissue | GC/MS NNN | 10/10/14 | 10/18/14 14:03 | 141010L26 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------|--------|------|-------|------|------------|
| PCB018 | 0.073 | 0.20 | 0.039 | 1.00 | J |
| PCB028 | 0.11 | 0.20 | 0.055 | 1.00 | J |
| PCB037 | ND | 0.20 | 0.035 | 1.00 | |
| PCB044 | ND | 0.20 | 0.092 | 1.00 | |
| PCB049 | 0.22 | 0.20 | 0.086 | 1.00 | |
| PCB052 | 0.29 | 0.20 | 0.051 | 1.00 | |
| PCB066 | 0.25 | 0.20 | 0.075 | 1.00 | |
| PCB070 | 0.10 | 0.20 | 0.048 | 1.00 | J |
| PCB074 | 0.16 | 0.20 | 0.046 | 1.00 | J |
| PCB077 | ND | 0.20 | 0.085 | 1.00 | |
| PCB081 | ND | 0.20 | 0.064 | 1.00 | |
| PCB087 | 0.21 | 0.20 | 0.041 | 1.00 | |
| PCB099 | 0.38 | 0.20 | 0.054 | 1.00 | |
| PCB101 | 0.53 | 0.20 | 0.051 | 1.00 | |
| PCB105 | 0.19 | 0.20 | 0.042 | 1.00 | J |
| PCB110 | 0.33 | 0.20 | 0.046 | 1.00 | |
| PCB114 | ND | 0.20 | 0.036 | 1.00 | |
| PCB118 | 0.52 | 0.20 | 0.059 | 1.00 | |
| PCB119 | ND | 0.20 | 0.046 | 1.00 | |
| PCB123 | 0.068 | 0.20 | 0.047 | 1.00 | J |
| PCB126 | ND | 0.20 | 0.034 | 1.00 | |
| PCB128 | 0.14 | 0.20 | 0.039 | 1.00 | J |
| PCB132/153 | 1.0 | 0.40 | 0.067 | 1.00 | |
| PCB138/158 | 0.74 | 0.40 | 0.075 | 1.00 | |
| PCB149 | 0.28 | 0.20 | 0.048 | 1.00 | |
| PCB151 | 0.099 | 0.20 | 0.062 | 1.00 | J |
| PCB156 | ND | 0.20 | 0.066 | 1.00 | |
| PCB157 | ND | 0.20 | 0.051 | 1.00 | |
| PCB167 | 0.047 | 0.20 | 0.042 | 1.00 | J |
| PCB168 | ND | 0.20 | 0.045 | 1.00 | |
| PCB169 | ND | 0.20 | 0.033 | 1.00 | |
| PCB170 | 0.14 | 0.20 | 0.050 | 1.00 | J |
| PCB177 | 0.077 | 0.20 | 0.040 | 1.00 | J |
| PCB180 | 0.26 | 0.20 | 0.030 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 10/08/14
 Work Order: 14-10-0602
 Preparation: EPA 3541
 Method: EPA 8270C SIM PCB Congeners
 Units: ug/kg

Project: GWMA - TMDL Compliance Monitoring

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| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|-----------------|-----------------------|-------------------|-----------|-------------------|
| PCB183 | 0.099 | 0.20 | 0.032 | 1.00 | J |
| PCB187 | 0.27 | 0.20 | 0.039 | 1.00 | |
| PCB189 | ND | 0.20 | 0.025 | 1.00 | |
| PCB194 | 0.064 | 0.20 | 0.041 | 1.00 | J |
| PCB195 | ND | 0.20 | 0.032 | 1.00 | |
| PCB201 | ND | 0.20 | 0.044 | 1.00 | |
| PCB206 | ND | 0.20 | 0.045 | 1.00 | |
| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> | | |
| 2-Fluorobiphenyl | 29 | 10-150 | | | |
| p-Terphenyl-d14 | 27 | 10-150 | | | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

| | | |
|------------------------------|----------------|-----------------------------|
| ANCHOR QEA, LLC | Date Received: | 10/08/14 |
| 27201 Puerta Real, Suite 350 | Work Order: | 14-10-0602 |
| Mission Viejo, CA 92691-8306 | Preparation: | EPA 3541 |
| | Method: | EPA 8270C SIM PCB Congeners |
| | Units: | ug/kg |

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| SP-FF-CH-C2-20141008 | 14-10-0602-11-AA | 10/08/14 12:10 | Tissue | GC/MS NNN | 10/10/14 | 10/18/14 14:27 | 141010L26 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------|--------|------|-------|------|------------|
| PCB018 | 0.047 | 0.20 | 0.039 | 1.00 | J |
| PCB028 | ND | 0.20 | 0.055 | 1.00 | |
| PCB037 | ND | 0.20 | 0.035 | 1.00 | |
| PCB044 | ND | 0.20 | 0.092 | 1.00 | |
| PCB049 | 0.13 | 0.20 | 0.086 | 1.00 | J |
| PCB052 | 0.11 | 0.20 | 0.051 | 1.00 | J |
| PCB066 | 0.11 | 0.20 | 0.075 | 1.00 | J |
| PCB070 | ND | 0.20 | 0.048 | 1.00 | |
| PCB074 | 0.061 | 0.20 | 0.046 | 1.00 | J |
| PCB077 | ND | 0.20 | 0.085 | 1.00 | |
| PCB081 | ND | 0.20 | 0.064 | 1.00 | |
| PCB087 | 0.073 | 0.20 | 0.041 | 1.00 | J |
| PCB099 | 0.18 | 0.20 | 0.054 | 1.00 | J |
| PCB101 | 0.26 | 0.20 | 0.051 | 1.00 | |
| PCB105 | 0.11 | 0.20 | 0.042 | 1.00 | J |
| PCB110 | 0.19 | 0.20 | 0.046 | 1.00 | J |
| PCB114 | ND | 0.20 | 0.036 | 1.00 | |
| PCB118 | 0.28 | 0.20 | 0.059 | 1.00 | |
| PCB119 | ND | 0.20 | 0.046 | 1.00 | |
| PCB123 | ND | 0.20 | 0.047 | 1.00 | |
| PCB126 | ND | 0.20 | 0.034 | 1.00 | |
| PCB128 | 0.095 | 0.20 | 0.039 | 1.00 | J |
| PCB132/153 | 0.60 | 0.40 | 0.067 | 1.00 | |
| PCB138/158 | 0.44 | 0.40 | 0.075 | 1.00 | |
| PCB149 | 0.15 | 0.20 | 0.048 | 1.00 | J |
| PCB151 | 0.075 | 0.20 | 0.062 | 1.00 | J |
| PCB156 | ND | 0.20 | 0.066 | 1.00 | |
| PCB157 | ND | 0.20 | 0.051 | 1.00 | |
| PCB167 | ND | 0.20 | 0.042 | 1.00 | |
| PCB168 | ND | 0.20 | 0.045 | 1.00 | |
| PCB169 | ND | 0.20 | 0.033 | 1.00 | |
| PCB170 | 0.096 | 0.20 | 0.050 | 1.00 | J |
| PCB177 | ND | 0.20 | 0.040 | 1.00 | |
| PCB180 | 0.20 | 0.20 | 0.030 | 1.00 | J |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 10/08/14
 Work Order: 14-10-0602
 Preparation: EPA 3541
 Method: EPA 8270C SIM PCB Congeners
 Units: ug/kg

Project: GWMA - TMDL Compliance Monitoring

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| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|-----------------|-----------------------|-------------------|-----------|-------------------|
| PCB183 | 0.052 | 0.20 | 0.032 | 1.00 | J |
| PCB187 | 0.17 | 0.20 | 0.039 | 1.00 | J |
| PCB189 | ND | 0.20 | 0.025 | 1.00 | |
| PCB194 | ND | 0.20 | 0.041 | 1.00 | |
| PCB195 | ND | 0.20 | 0.032 | 1.00 | |
| PCB201 | ND | 0.20 | 0.044 | 1.00 | |
| PCB206 | ND | 0.20 | 0.045 | 1.00 | |
| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> | | |
| 2-Fluorobiphenyl | 11 | 10-150 | | | |
| p-Terphenyl-d14 | 11 | 10-150 | | | |


 Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 10/08/14
Work Order: 14-10-0602
Preparation: EPA 3541
Method: EPA 8270C SIM PCB Congeners
Units: ug/kg

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| SP-FF-CH-C3-20141008 | 14-10-0602-12-AA | 10/08/14 12:10 | Tissue | GC/MS NNN | 10/10/14 | 10/18/14 14:50 | 141010L26 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------|--------|------|-------|------|------------|
| PCB018 | 0.19 | 0.20 | 0.039 | 1.00 | J |
| PCB028 | 0.15 | 0.20 | 0.055 | 1.00 | J |
| PCB037 | ND | 0.20 | 0.035 | 1.00 | |
| PCB044 | 0.20 | 0.20 | 0.092 | 1.00 | J |
| PCB049 | 0.44 | 0.20 | 0.086 | 1.00 | |
| PCB052 | 0.47 | 0.20 | 0.051 | 1.00 | |
| PCB066 | 0.46 | 0.20 | 0.075 | 1.00 | |
| PCB070 | 0.18 | 0.20 | 0.048 | 1.00 | J |
| PCB074 | 0.27 | 0.20 | 0.046 | 1.00 | |
| PCB077 | 0.12 | 0.20 | 0.085 | 1.00 | J |
| PCB081 | ND | 0.20 | 0.064 | 1.00 | |
| PCB087 | 0.35 | 0.20 | 0.041 | 1.00 | |
| PCB099 | 1.1 | 0.20 | 0.054 | 1.00 | |
| PCB101 | 1.3 | 0.20 | 0.051 | 1.00 | |
| PCB105 | 0.42 | 0.20 | 0.042 | 1.00 | |
| PCB110 | 0.75 | 0.20 | 0.046 | 1.00 | |
| PCB114 | ND | 0.20 | 0.036 | 1.00 | |
| PCB118 | 1.4 | 0.20 | 0.059 | 1.00 | |
| PCB119 | 0.073 | 0.20 | 0.046 | 1.00 | J |
| PCB123 | 0.18 | 0.20 | 0.047 | 1.00 | J |
| PCB126 | ND | 0.20 | 0.034 | 1.00 | |
| PCB128 | 0.40 | 0.20 | 0.039 | 1.00 | |
| PCB132/153 | 4.1 | 0.40 | 0.067 | 1.00 | |
| PCB138/158 | 2.5 | 0.40 | 0.075 | 1.00 | |
| PCB149 | 0.87 | 0.20 | 0.048 | 1.00 | |
| PCB151 | 0.33 | 0.20 | 0.062 | 1.00 | |
| PCB156 | 0.14 | 0.20 | 0.066 | 1.00 | J |
| PCB157 | ND | 0.20 | 0.051 | 1.00 | |
| PCB167 | ND | 0.20 | 0.042 | 1.00 | |
| PCB168 | ND | 0.20 | 0.045 | 1.00 | |
| PCB169 | 0.097 | 0.20 | 0.033 | 1.00 | J |
| PCB170 | 0.39 | 0.20 | 0.050 | 1.00 | |
| PCB177 | 0.23 | 0.20 | 0.040 | 1.00 | |
| PCB180 | 0.80 | 0.20 | 0.030 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 10/08/14
 Work Order: 14-10-0602
 Preparation: EPA 3541
 Method: EPA 8270C SIM PCB Congeners
 Units: ug/kg

Project: GWMA - TMDL Compliance Monitoring

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| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|-----------------|-----------------------|-------------------|-----------|-------------------|
| PCB183 | 0.32 | 0.20 | 0.032 | 1.00 | |
| PCB187 | 1.1 | 0.20 | 0.039 | 1.00 | |
| PCB189 | 0.030 | 0.20 | 0.025 | 1.00 | J |
| PCB194 | 0.15 | 0.20 | 0.041 | 1.00 | J |
| PCB195 | 0.059 | 0.20 | 0.032 | 1.00 | J |
| PCB201 | 0.065 | 0.20 | 0.044 | 1.00 | J |
| PCB206 | 0.13 | 0.20 | 0.045 | 1.00 | J |
| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> | | |
| 2-Fluorobiphenyl | 48 | 10-150 | | | |
| p-Terphenyl-d14 | 45 | 10-150 | | | |


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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 10/08/14
Work Order: 14-10-0602
Preparation: EPA 3541
Method: EPA 8270C SIM PCB Congeners
Units: ug/kg

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| SP-WO-PP-C1-20141008 | 14-10-0602-13-AA | 10/08/14 12:19 | Tissue | GC/MS NNN | 10/10/14 | 10/18/14 15:13 | 141010L26 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------|--------|------|-------|------|------------|
| PCB018 | 0.46 | 0.20 | 0.039 | 1.00 | |
| PCB028 | 0.62 | 0.20 | 0.055 | 1.00 | |
| PCB037 | ND | 0.20 | 0.035 | 1.00 | |
| PCB044 | 0.72 | 0.20 | 0.092 | 1.00 | |
| PCB049 | 1.3 | 0.20 | 0.086 | 1.00 | |
| PCB052 | 1.3 | 0.20 | 0.051 | 1.00 | |
| PCB066 | 1.4 | 0.20 | 0.075 | 1.00 | |
| PCB070 | 0.83 | 0.20 | 0.048 | 1.00 | |
| PCB074 | 0.64 | 0.20 | 0.046 | 1.00 | |
| PCB077 | 0.28 | 0.20 | 0.085 | 1.00 | |
| PCB081 | ND | 0.20 | 0.064 | 1.00 | |
| PCB087 | 1.1 | 0.20 | 0.041 | 1.00 | |
| PCB099 | 1.7 | 0.20 | 0.054 | 1.00 | |
| PCB101 | 2.2 | 0.20 | 0.051 | 1.00 | |
| PCB105 | 0.67 | 0.20 | 0.042 | 1.00 | |
| PCB110 | 1.9 | 0.20 | 0.046 | 1.00 | |
| PCB114 | ND | 0.20 | 0.036 | 1.00 | |
| PCB118 | 1.9 | 0.20 | 0.059 | 1.00 | |
| PCB119 | 0.11 | 0.20 | 0.046 | 1.00 | J |
| PCB123 | 0.29 | 0.20 | 0.047 | 1.00 | |
| PCB126 | ND | 0.20 | 0.034 | 1.00 | |
| PCB128 | 0.49 | 0.20 | 0.039 | 1.00 | |
| PCB132/153 | 3.8 | 0.40 | 0.067 | 1.00 | |
| PCB138/158 | 2.7 | 0.40 | 0.075 | 1.00 | |
| PCB149 | 1.6 | 0.20 | 0.048 | 1.00 | |
| PCB151 | 0.43 | 0.20 | 0.062 | 1.00 | |
| PCB156 | 0.18 | 0.20 | 0.066 | 1.00 | J |
| PCB157 | 0.068 | 0.20 | 0.051 | 1.00 | J |
| PCB167 | ND | 0.20 | 0.042 | 1.00 | |
| PCB168 | ND | 0.20 | 0.045 | 1.00 | |
| PCB169 | 0.058 | 0.20 | 0.033 | 1.00 | J |
| PCB170 | 0.40 | 0.20 | 0.050 | 1.00 | |
| PCB177 | 0.27 | 0.20 | 0.040 | 1.00 | |
| PCB180 | 0.82 | 0.20 | 0.030 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 10/08/14
 Work Order: 14-10-0602
 Preparation: EPA 3541
 Method: EPA 8270C SIM PCB Congeners
 Units: ug/kg

Project: GWMA - TMDL Compliance Monitoring

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| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|-----------------|-----------------------|-------------------|-----------|-------------------|
| PCB183 | 0.27 | 0.20 | 0.032 | 1.00 | |
| PCB187 | 0.87 | 0.20 | 0.039 | 1.00 | |
| PCB189 | 0.027 | 0.20 | 0.025 | 1.00 | J |
| PCB194 | 0.15 | 0.20 | 0.041 | 1.00 | J |
| PCB195 | 0.058 | 0.20 | 0.032 | 1.00 | J |
| PCB201 | 0.052 | 0.20 | 0.044 | 1.00 | J |
| PCB206 | 0.12 | 0.20 | 0.045 | 1.00 | J |
| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> | | |
| 2-Fluorobiphenyl | 21 | 10-150 | | | |
| p-Terphenyl-d14 | 21 | 10-150 | | | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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Analytical Report

| | | |
|------------------------------|----------------|-----------------------------|
| ANCHOR QEA, LLC | Date Received: | 10/08/14 |
| 27201 Puerta Real, Suite 350 | Work Order: | 14-10-0602 |
| Mission Viejo, CA 92691-8306 | Preparation: | EPA 3541 |
| | Method: | EPA 8270C SIM PCB Congeners |
| | Units: | ug/kg |

Project: GWMA - TMDL Compliance Monitoring Page 27 of 58

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| SP-WO-PP-C2-20141008 | 14-10-0602-14-AA | 10/08/14 12:19 | Tissue | GC/MS NNN | 10/10/14 | 10/18/14 15:37 | 141010L26 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------|--------|------|-------|------|------------|
| PCB018 | 0.89 | 0.20 | 0.039 | 1.00 | |
| PCB028 | 1.2 | 0.20 | 0.055 | 1.00 | |
| PCB037 | ND | 0.20 | 0.035 | 1.00 | |
| PCB044 | 1.4 | 0.20 | 0.092 | 1.00 | |
| PCB049 | 2.5 | 0.20 | 0.086 | 1.00 | |
| PCB052 | 2.2 | 0.20 | 0.051 | 1.00 | |
| PCB066 | 2.2 | 0.20 | 0.075 | 1.00 | |
| PCB070 | 1.7 | 0.20 | 0.048 | 1.00 | |
| PCB074 | 1.2 | 0.20 | 0.046 | 1.00 | |
| PCB077 | 0.54 | 0.20 | 0.085 | 1.00 | |
| PCB081 | ND | 0.20 | 0.064 | 1.00 | |
| PCB087 | 2.2 | 0.20 | 0.041 | 1.00 | |
| PCB099 | 3.3 | 0.20 | 0.054 | 1.00 | |
| PCB101 | 4.4 | 0.20 | 0.051 | 1.00 | |
| PCB105 | 1.3 | 0.20 | 0.042 | 1.00 | |
| PCB110 | 3.6 | 0.20 | 0.046 | 1.00 | |
| PCB114 | 0.14 | 0.20 | 0.036 | 1.00 | J |
| PCB118 | 3.7 | 0.20 | 0.059 | 1.00 | |
| PCB119 | 0.19 | 0.20 | 0.046 | 1.00 | J |
| PCB123 | 0.51 | 0.20 | 0.047 | 1.00 | |
| PCB126 | ND | 0.20 | 0.034 | 1.00 | |
| PCB128 | 0.99 | 0.20 | 0.039 | 1.00 | |
| PCB132/153 | 7.6 | 0.40 | 0.067 | 1.00 | |
| PCB138/158 | 5.3 | 0.40 | 0.075 | 1.00 | |
| PCB149 | 3.1 | 0.20 | 0.048 | 1.00 | |
| PCB151 | 0.83 | 0.20 | 0.062 | 1.00 | |
| PCB156 | 0.33 | 0.20 | 0.066 | 1.00 | |
| PCB157 | 0.10 | 0.20 | 0.051 | 1.00 | J |
| PCB167 | 0.19 | 0.20 | 0.042 | 1.00 | J |
| PCB168 | ND | 0.20 | 0.045 | 1.00 | |
| PCB169 | 0.11 | 0.20 | 0.033 | 1.00 | J |
| PCB170 | 0.76 | 0.20 | 0.050 | 1.00 | |
| PCB177 | 0.50 | 0.20 | 0.040 | 1.00 | |
| PCB180 | 1.5 | 0.20 | 0.030 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 10/08/14
 Work Order: 14-10-0602
 Preparation: EPA 3541
 Method: EPA 8270C SIM PCB Congeners
 Units: ug/kg

Project: GWMA - TMDL Compliance Monitoring

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| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|-----------------|-----------------------|-------------------|-----------|-------------------|
| PCB183 | 0.48 | 0.20 | 0.032 | 1.00 | |
| PCB187 | 1.7 | 0.20 | 0.039 | 1.00 | |
| PCB189 | 0.051 | 0.20 | 0.025 | 1.00 | J |
| PCB194 | 0.29 | 0.20 | 0.041 | 1.00 | |
| PCB195 | 0.095 | 0.20 | 0.032 | 1.00 | J |
| PCB201 | 0.090 | 0.20 | 0.044 | 1.00 | J |
| PCB206 | 0.19 | 0.20 | 0.045 | 1.00 | J |
| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> | | |
| 2-Fluorobiphenyl | 43 | 10-150 | | | |
| p-Terphenyl-d14 | 40 | 10-150 | | | |


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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 10/08/14
Work Order: 14-10-0602
Preparation: EPA 3541
Method: EPA 8270C SIM PCB Congeners
Units: ug/kg

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| SP-WO-PP-C3-20141008 | 14-10-0602-15-AA | 10/08/14 12:19 | Tissue | GC/MS NNN | 10/11/14 | 10/18/14 16:00 | 141011L04 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------|--------|------|-------|------|------------|
| PCB018 | 1.0 | 0.20 | 0.039 | 1.00 | |
| PCB028 | 1.2 | 0.20 | 0.055 | 1.00 | |
| PCB037 | ND | 0.20 | 0.035 | 1.00 | |
| PCB044 | 1.6 | 0.20 | 0.092 | 1.00 | |
| PCB049 | 2.1 | 0.20 | 0.086 | 1.00 | |
| PCB052 | 2.4 | 0.20 | 0.051 | 1.00 | |
| PCB066 | 1.9 | 0.20 | 0.075 | 1.00 | |
| PCB070 | 1.5 | 0.20 | 0.048 | 1.00 | |
| PCB074 | 1.1 | 0.20 | 0.046 | 1.00 | |
| PCB077 | 0.37 | 0.20 | 0.085 | 1.00 | |
| PCB081 | ND | 0.20 | 0.064 | 1.00 | |
| PCB087 | 1.4 | 0.20 | 0.041 | 1.00 | |
| PCB099 | 2.2 | 0.20 | 0.054 | 1.00 | |
| PCB101 | 3.4 | 0.20 | 0.051 | 1.00 | |
| PCB105 | 0.93 | 0.20 | 0.042 | 1.00 | |
| PCB110 | 2.7 | 0.20 | 0.046 | 1.00 | |
| PCB114 | 0.076 | 0.20 | 0.036 | 1.00 | J |
| PCB118 | 2.5 | 0.20 | 0.059 | 1.00 | |
| PCB119 | 0.11 | 0.20 | 0.046 | 1.00 | J |
| PCB123 | 0.37 | 0.20 | 0.047 | 1.00 | |
| PCB126 | ND | 0.20 | 0.034 | 1.00 | |
| PCB128 | 0.62 | 0.20 | 0.039 | 1.00 | |
| PCB132/153 | 4.8 | 0.40 | 0.067 | 1.00 | |
| PCB138/158 | 3.3 | 0.40 | 0.075 | 1.00 | |
| PCB149 | 2.0 | 0.20 | 0.048 | 1.00 | |
| PCB151 | 0.58 | 0.20 | 0.062 | 1.00 | |
| PCB156 | 0.19 | 0.20 | 0.066 | 1.00 | J |
| PCB157 | 0.077 | 0.20 | 0.051 | 1.00 | J |
| PCB167 | ND | 0.20 | 0.042 | 1.00 | |
| PCB168 | ND | 0.20 | 0.045 | 1.00 | |
| PCB169 | 0.057 | 0.20 | 0.033 | 1.00 | J |
| PCB170 | 0.43 | 0.20 | 0.050 | 1.00 | |
| PCB177 | 0.32 | 0.20 | 0.040 | 1.00 | |
| PCB180 | 0.86 | 0.20 | 0.030 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 10/08/14
 Work Order: 14-10-0602
 Preparation: EPA 3541
 Method: EPA 8270C SIM PCB Congeners
 Units: ug/kg

Project: GWMA - TMDL Compliance Monitoring

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| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|-----------------|-----------------------|-------------------|-----------|-------------------|
| PCB183 | 0.34 | 0.20 | 0.032 | 1.00 | |
| PCB187 | 0.96 | 0.20 | 0.039 | 1.00 | |
| PCB189 | 0.037 | 0.20 | 0.025 | 1.00 | J |
| PCB194 | 0.13 | 0.20 | 0.041 | 1.00 | J |
| PCB195 | 0.074 | 0.20 | 0.032 | 1.00 | J |
| PCB201 | 0.048 | 0.20 | 0.044 | 1.00 | J |
| PCB206 | 0.069 | 0.20 | 0.045 | 1.00 | J |
| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> | | |
| 2-Fluorobiphenyl | 43 | 10-150 | | | |
| p-Terphenyl-d14 | 41 | 10-150 | | | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 10/08/14
Work Order: 14-10-0602
Preparation: EPA 3541
Method: EPA 8270C SIM PCB Congeners
Units: ug/kg

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| SP-FF-WC-C1-20141008 | 14-10-0602-16-AA | 10/08/14 12:26 | Tissue | GC/MS NNN | 10/11/14 | 10/18/14 16:23 | 141011L04 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------|--------|------|-------|------|------------|
| PCB018 | 0.94 | 0.20 | 0.039 | 1.00 | |
| PCB028 | 3.2 | 0.20 | 0.055 | 1.00 | |
| PCB037 | ND | 0.20 | 0.035 | 1.00 | |
| PCB044 | 3.7 | 0.20 | 0.092 | 1.00 | |
| PCB049 | 4.7 | 0.20 | 0.086 | 1.00 | |
| PCB052 | 4.7 | 0.20 | 0.051 | 1.00 | |
| PCB066 | 5.3 | 0.20 | 0.075 | 1.00 | |
| PCB070 | 4.0 | 0.20 | 0.048 | 1.00 | |
| PCB074 | 3.1 | 0.20 | 0.046 | 1.00 | |
| PCB077 | 0.79 | 0.20 | 0.085 | 1.00 | |
| PCB081 | ND | 0.20 | 0.064 | 1.00 | |
| PCB087 | 3.3 | 0.20 | 0.041 | 1.00 | |
| PCB099 | 6.6 | 0.20 | 0.054 | 1.00 | |
| PCB101 | 8.9 | 0.20 | 0.051 | 1.00 | |
| PCB105 | 3.2 | 0.20 | 0.042 | 1.00 | |
| PCB110 | 6.7 | 0.20 | 0.046 | 1.00 | |
| PCB114 | 0.21 | 0.20 | 0.036 | 1.00 | |
| PCB118 | 9.1 | 0.20 | 0.059 | 1.00 | |
| PCB119 | 0.38 | 0.20 | 0.046 | 1.00 | |
| PCB123 | 1.1 | 0.20 | 0.047 | 1.00 | |
| PCB126 | ND | 0.20 | 0.034 | 1.00 | |
| PCB128 | 1.9 | 0.20 | 0.039 | 1.00 | |
| PCB132/153 | 17 | 0.40 | 0.067 | 1.00 | |
| PCB138/158 | 12 | 0.40 | 0.075 | 1.00 | |
| PCB149 | 5.7 | 0.20 | 0.048 | 1.00 | |
| PCB151 | 1.7 | 0.20 | 0.062 | 1.00 | |
| PCB156 | 0.85 | 0.20 | 0.066 | 1.00 | |
| PCB157 | 0.23 | 0.20 | 0.051 | 1.00 | |
| PCB167 | 0.52 | 0.20 | 0.042 | 1.00 | |
| PCB168 | ND | 0.20 | 0.045 | 1.00 | |
| PCB169 | 0.43 | 0.20 | 0.033 | 1.00 | |
| PCB170 | 2.5 | 0.20 | 0.050 | 1.00 | |
| PCB177 | 1.1 | 0.20 | 0.040 | 1.00 | |
| PCB180 | 5.3 | 0.20 | 0.030 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 10/08/14
 Work Order: 14-10-0602
 Preparation: EPA 3541
 Method: EPA 8270C SIM PCB Congeners
 Units: ug/kg

Project: GWMA - TMDL Compliance Monitoring

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| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|-----------------|-----------------------|-------------------|-----------|-------------------|
| PCB183 | 1.5 | 0.20 | 0.032 | 1.00 | |
| PCB187 | 4.3 | 0.20 | 0.039 | 1.00 | |
| PCB189 | 0.10 | 0.20 | 0.025 | 1.00 | J |
| PCB194 | 1.1 | 0.20 | 0.041 | 1.00 | |
| PCB195 | 0.35 | 0.20 | 0.032 | 1.00 | |
| PCB201 | 0.18 | 0.20 | 0.044 | 1.00 | J |
| PCB206 | 0.60 | 0.20 | 0.045 | 1.00 | |
| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> | | |
| 2-Fluorobiphenyl | 48 | 10-150 | | | |
| p-Terphenyl-d14 | 45 | 10-150 | | | |


 Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 10/08/14
Work Order: 14-10-0602
Preparation: EPA 3541
Method: EPA 8270C SIM PCB Congeners
Units: ug/kg

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| SP-FF-WC-C2-20141008 | 14-10-0602-17-AA | 10/08/14 12:26 | Tissue | GC/MS NNN | 10/11/14 | 10/18/14 16:47 | 141011L04 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------|--------|------|-------|------|------------|
| PCB018 | 0.63 | 0.20 | 0.039 | 1.00 | |
| PCB028 | 1.8 | 0.20 | 0.055 | 1.00 | |
| PCB037 | ND | 0.20 | 0.035 | 1.00 | |
| PCB044 | 2.3 | 0.20 | 0.092 | 1.00 | |
| PCB049 | 2.7 | 0.20 | 0.086 | 1.00 | |
| PCB052 | 3.1 | 0.20 | 0.051 | 1.00 | |
| PCB066 | 2.8 | 0.20 | 0.075 | 1.00 | |
| PCB070 | 2.1 | 0.20 | 0.048 | 1.00 | |
| PCB074 | 1.5 | 0.20 | 0.046 | 1.00 | |
| PCB077 | 0.45 | 0.20 | 0.085 | 1.00 | |
| PCB081 | ND | 0.20 | 0.064 | 1.00 | |
| PCB087 | 1.6 | 0.20 | 0.041 | 1.00 | |
| PCB099 | 2.9 | 0.20 | 0.054 | 1.00 | |
| PCB101 | 4.2 | 0.20 | 0.051 | 1.00 | |
| PCB105 | 1.4 | 0.20 | 0.042 | 1.00 | |
| PCB110 | 3.4 | 0.20 | 0.046 | 1.00 | |
| PCB114 | 0.038 | 0.20 | 0.036 | 1.00 | J |
| PCB118 | 3.6 | 0.20 | 0.059 | 1.00 | |
| PCB119 | 0.19 | 0.20 | 0.046 | 1.00 | J |
| PCB123 | 0.46 | 0.20 | 0.047 | 1.00 | |
| PCB126 | ND | 0.20 | 0.034 | 1.00 | |
| PCB128 | 0.85 | 0.20 | 0.039 | 1.00 | |
| PCB132/153 | 6.5 | 0.40 | 0.067 | 1.00 | |
| PCB138/158 | 4.9 | 0.40 | 0.075 | 1.00 | |
| PCB149 | 2.7 | 0.20 | 0.048 | 1.00 | |
| PCB151 | 0.77 | 0.20 | 0.062 | 1.00 | |
| PCB156 | 0.36 | 0.20 | 0.066 | 1.00 | |
| PCB157 | 0.11 | 0.20 | 0.051 | 1.00 | J |
| PCB167 | ND | 0.20 | 0.042 | 1.00 | |
| PCB168 | ND | 0.20 | 0.045 | 1.00 | |
| PCB169 | 0.16 | 0.20 | 0.033 | 1.00 | J |
| PCB170 | 0.98 | 0.20 | 0.050 | 1.00 | |
| PCB177 | 0.49 | 0.20 | 0.040 | 1.00 | |
| PCB180 | 2.0 | 0.20 | 0.030 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 10/08/14
 Work Order: 14-10-0602
 Preparation: EPA 3541
 Method: EPA 8270C SIM PCB Congeners
 Units: ug/kg

Project: GWMA - TMDL Compliance Monitoring

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| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|-----------------|-----------------------|-------------------|-----------|-------------------|
| PCB183 | 0.57 | 0.20 | 0.032 | 1.00 | |
| PCB187 | 1.7 | 0.20 | 0.039 | 1.00 | |
| PCB189 | 0.042 | 0.20 | 0.025 | 1.00 | J |
| PCB194 | 0.46 | 0.20 | 0.041 | 1.00 | |
| PCB195 | 0.15 | 0.20 | 0.032 | 1.00 | J |
| PCB201 | 0.10 | 0.20 | 0.044 | 1.00 | J |
| PCB206 | 0.29 | 0.20 | 0.045 | 1.00 | |
| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> | | |
| 2-Fluorobiphenyl | 52 | 10-150 | | | |
| p-Terphenyl-d14 | 53 | 10-150 | | | |

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 10/08/14
Work Order: 14-10-0602
Preparation: EPA 3541
Method: EPA 8270C SIM PCB Congeners
Units: ug/kg

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| SP-FF-WC-C3-20141008 | 14-10-0602-18-AA | 10/08/14 12:26 | Tissue | GC/MS NNN | 10/11/14 | 10/18/14 17:10 | 141011L04 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------|--------|------|-------|------|------------|
| PCB018 | 1.6 | 0.20 | 0.039 | 1.00 | |
| PCB028 | 4.2 | 0.20 | 0.055 | 1.00 | |
| PCB037 | ND | 0.20 | 0.035 | 1.00 | |
| PCB044 | 5.2 | 0.20 | 0.092 | 1.00 | |
| PCB049 | 6.6 | 0.20 | 0.086 | 1.00 | |
| PCB052 | 6.6 | 0.20 | 0.051 | 1.00 | |
| PCB066 | 6.4 | 0.20 | 0.075 | 1.00 | |
| PCB070 | 5.2 | 0.20 | 0.048 | 1.00 | |
| PCB074 | 3.9 | 0.20 | 0.046 | 1.00 | |
| PCB077 | 0.93 | 0.20 | 0.085 | 1.00 | |
| PCB081 | ND | 0.20 | 0.064 | 1.00 | |
| PCB087 | 3.6 | 0.20 | 0.041 | 1.00 | |
| PCB099 | 7.4 | 0.20 | 0.054 | 1.00 | |
| PCB101 | 10 | 0.20 | 0.051 | 1.00 | |
| PCB105 | 3.7 | 0.20 | 0.042 | 1.00 | |
| PCB110 | 8.0 | 0.20 | 0.046 | 1.00 | |
| PCB114 | 0.23 | 0.20 | 0.036 | 1.00 | |
| PCB118 | 9.4 | 0.20 | 0.059 | 1.00 | |
| PCB119 | 0.41 | 0.20 | 0.046 | 1.00 | |
| PCB123 | 1.1 | 0.20 | 0.047 | 1.00 | |
| PCB126 | ND | 0.20 | 0.034 | 1.00 | |
| PCB128 | 1.9 | 0.20 | 0.039 | 1.00 | |
| PCB132/153 | 16 | 0.40 | 0.067 | 1.00 | |
| PCB138/158 | 12 | 0.40 | 0.075 | 1.00 | |
| PCB149 | 6.2 | 0.20 | 0.048 | 1.00 | |
| PCB151 | 1.8 | 0.20 | 0.062 | 1.00 | |
| PCB156 | 0.83 | 0.20 | 0.066 | 1.00 | |
| PCB157 | 0.21 | 0.20 | 0.051 | 1.00 | |
| PCB167 | 0.52 | 0.20 | 0.042 | 1.00 | |
| PCB168 | ND | 0.20 | 0.045 | 1.00 | |
| PCB169 | 0.42 | 0.20 | 0.033 | 1.00 | |
| PCB170 | 2.3 | 0.20 | 0.050 | 1.00 | |
| PCB177 | 1.1 | 0.20 | 0.040 | 1.00 | |
| PCB180 | 4.9 | 0.20 | 0.030 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 10/08/14
 Work Order: 14-10-0602
 Preparation: EPA 3541
 Method: EPA 8270C SIM PCB Congeners
 Units: ug/kg

Project: GWMA - TMDL Compliance Monitoring

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| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|-----------------|-----------------------|-------------------|-----------|-------------------|
| PCB183 | 1.4 | 0.20 | 0.032 | 1.00 | |
| PCB187 | 4.3 | 0.20 | 0.039 | 1.00 | |
| PCB189 | 0.074 | 0.20 | 0.025 | 1.00 | J |
| PCB194 | 0.97 | 0.20 | 0.041 | 1.00 | |
| PCB195 | 0.40 | 0.20 | 0.032 | 1.00 | |
| PCB201 | 0.19 | 0.20 | 0.044 | 1.00 | J |
| PCB206 | 0.57 | 0.20 | 0.045 | 1.00 | |
| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> | | |
| 2-Fluorobiphenyl | 46 | 10-150 | | | |
| p-Terphenyl-d14 | 42 | 10-150 | | | |

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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Analytical Report

| | | |
|------------------------------|----------------|-----------------------------|
| ANCHOR QEA, LLC | Date Received: | 10/08/14 |
| 27201 Puerta Real, Suite 350 | Work Order: | 14-10-0602 |
| Mission Viejo, CA 92691-8306 | Preparation: | EPA 3541 |
| | Method: | EPA 8270C SIM PCB Congeners |
| | Units: | ug/kg |

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| OB-FF-CH-C1-20141008 | 14-10-0602-19-AA | 10/08/14 12:03 | Tissue | GC/MS NNN | 10/11/14 | 10/18/14 17:34 | 141011L04 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------|--------|------|-------|------|------------|
| PCB018 | 0.087 | 0.20 | 0.039 | 1.00 | J |
| PCB028 | 0.14 | 0.20 | 0.055 | 1.00 | J |
| PCB037 | ND | 0.20 | 0.035 | 1.00 | |
| PCB044 | 0.10 | 0.20 | 0.092 | 1.00 | J |
| PCB049 | 0.39 | 0.20 | 0.086 | 1.00 | |
| PCB052 | 0.36 | 0.20 | 0.051 | 1.00 | |
| PCB066 | 0.46 | 0.20 | 0.075 | 1.00 | |
| PCB070 | 0.10 | 0.20 | 0.048 | 1.00 | J |
| PCB074 | 0.20 | 0.20 | 0.046 | 1.00 | J |
| PCB077 | ND | 0.20 | 0.085 | 1.00 | |
| PCB081 | ND | 0.20 | 0.064 | 1.00 | |
| PCB087 | 0.42 | 0.20 | 0.041 | 1.00 | |
| PCB099 | 1.0 | 0.20 | 0.054 | 1.00 | |
| PCB101 | 1.2 | 0.20 | 0.051 | 1.00 | |
| PCB105 | 0.41 | 0.20 | 0.042 | 1.00 | |
| PCB110 | 0.92 | 0.20 | 0.046 | 1.00 | |
| PCB114 | ND | 0.20 | 0.036 | 1.00 | |
| PCB118 | 1.3 | 0.20 | 0.059 | 1.00 | |
| PCB119 | 0.079 | 0.20 | 0.046 | 1.00 | J |
| PCB123 | 0.15 | 0.20 | 0.047 | 1.00 | J |
| PCB126 | ND | 0.20 | 0.034 | 1.00 | |
| PCB128 | 0.28 | 0.20 | 0.039 | 1.00 | |
| PCB132/153 | 3.0 | 0.40 | 0.067 | 1.00 | |
| PCB138/158 | 2.0 | 0.40 | 0.075 | 1.00 | |
| PCB149 | 0.98 | 0.20 | 0.048 | 1.00 | |
| PCB151 | 0.39 | 0.20 | 0.062 | 1.00 | |
| PCB156 | 0.13 | 0.20 | 0.066 | 1.00 | J |
| PCB157 | ND | 0.20 | 0.051 | 1.00 | |
| PCB167 | 0.13 | 0.20 | 0.042 | 1.00 | J |
| PCB168 | ND | 0.20 | 0.045 | 1.00 | |
| PCB169 | 0.045 | 0.20 | 0.033 | 1.00 | J |
| PCB170 | 0.34 | 0.20 | 0.050 | 1.00 | |
| PCB177 | 0.20 | 0.20 | 0.040 | 1.00 | J |
| PCB180 | 0.78 | 0.20 | 0.030 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 10/08/14
Work Order: 14-10-0602
Preparation: EPA 3541
Method: EPA 8270C SIM PCB Congeners
Units: ug/kg

Project: GWMA - TMDL Compliance Monitoring

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| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|-----------------|-----------------------|-------------------|-----------|-------------------|
| PCB183 | 0.29 | 0.20 | 0.032 | 1.00 | |
| PCB187 | 0.79 | 0.20 | 0.039 | 1.00 | |
| PCB189 | 0.042 | 0.20 | 0.025 | 1.00 | J |
| PCB194 | 0.14 | 0.20 | 0.041 | 1.00 | J |
| PCB195 | ND | 0.20 | 0.032 | 1.00 | |
| PCB201 | 0.053 | 0.20 | 0.044 | 1.00 | J |
| PCB206 | 0.12 | 0.20 | 0.045 | 1.00 | J |
| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> | | |
| 2-Fluorobiphenyl | 50 | 10-150 | | | |
| p-Terphenyl-d14 | 53 | 10-150 | | | |

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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Analytical Report

ANCHOR QEA, LLC
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Mission Viejo, CA 92691-8306

Date Received: 10/08/14
Work Order: 14-10-0602
Preparation: EPA 3541
Method: EPA 8270C SIM PCB Congeners
Units: ug/kg

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| OB-FF-CH-C2-20141008 | 14-10-0602-20-AA | 10/08/14 12:03 | Tissue | GC/MS NNN | 10/11/14 | 10/18/14 17:57 | 141011L04 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------|--------|------|-------|------|------------|
| PCB018 | 0.13 | 0.20 | 0.039 | 1.00 | J |
| PCB028 | 0.19 | 0.20 | 0.055 | 1.00 | J |
| PCB037 | ND | 0.20 | 0.035 | 1.00 | |
| PCB044 | ND | 0.20 | 0.092 | 1.00 | |
| PCB049 | 0.32 | 0.20 | 0.086 | 1.00 | |
| PCB052 | 0.34 | 0.20 | 0.051 | 1.00 | |
| PCB066 | 0.34 | 0.20 | 0.075 | 1.00 | |
| PCB070 | 0.13 | 0.20 | 0.048 | 1.00 | J |
| PCB074 | 0.15 | 0.20 | 0.046 | 1.00 | J |
| PCB077 | ND | 0.20 | 0.085 | 1.00 | |
| PCB081 | ND | 0.20 | 0.064 | 1.00 | |
| PCB087 | 0.38 | 0.20 | 0.041 | 1.00 | |
| PCB099 | 0.58 | 0.20 | 0.054 | 1.00 | |
| PCB101 | 0.98 | 0.20 | 0.051 | 1.00 | |
| PCB105 | 0.31 | 0.20 | 0.042 | 1.00 | |
| PCB110 | 0.63 | 0.20 | 0.046 | 1.00 | |
| PCB114 | ND | 0.20 | 0.036 | 1.00 | |
| PCB118 | 0.87 | 0.20 | 0.059 | 1.00 | |
| PCB119 | 0.058 | 0.20 | 0.046 | 1.00 | J |
| PCB123 | 0.11 | 0.20 | 0.047 | 1.00 | J |
| PCB126 | ND | 0.20 | 0.034 | 1.00 | |
| PCB128 | 0.23 | 0.20 | 0.039 | 1.00 | |
| PCB132/153 | 1.8 | 0.40 | 0.067 | 1.00 | |
| PCB138/158 | 1.3 | 0.40 | 0.075 | 1.00 | |
| PCB149 | 0.62 | 0.20 | 0.048 | 1.00 | |
| PCB151 | 0.23 | 0.20 | 0.062 | 1.00 | |
| PCB156 | 0.096 | 0.20 | 0.066 | 1.00 | J |
| PCB157 | ND | 0.20 | 0.051 | 1.00 | |
| PCB167 | ND | 0.20 | 0.042 | 1.00 | |
| PCB168 | ND | 0.20 | 0.045 | 1.00 | |
| PCB169 | 0.061 | 0.20 | 0.033 | 1.00 | J |
| PCB170 | 0.24 | 0.20 | 0.050 | 1.00 | |
| PCB177 | 0.12 | 0.20 | 0.040 | 1.00 | J |
| PCB180 | 0.45 | 0.20 | 0.030 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

| | | |
|--|----------------|-----------------------------|
| ANCHOR QEA, LLC | Date Received: | 10/08/14 |
| 27201 Puerta Real, Suite 350 | Work Order: | 14-10-0602 |
| Mission Viejo, CA 92691-8306 | Preparation: | EPA 3541 |
| | Method: | EPA 8270C SIM PCB Congeners |
| | Units: | ug/kg |
| Project: GWMA - TMDL Compliance Monitoring | | Page 40 of 58 |

| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|-----------------|-----------------------|-------------------|-----------|-------------------|
| PCB183 | 0.18 | 0.20 | 0.032 | 1.00 | J |
| PCB187 | 0.46 | 0.20 | 0.039 | 1.00 | |
| PCB189 | 0.031 | 0.20 | 0.025 | 1.00 | J |
| PCB194 | 0.095 | 0.20 | 0.041 | 1.00 | J |
| PCB195 | ND | 0.20 | 0.032 | 1.00 | |
| PCB201 | ND | 0.20 | 0.044 | 1.00 | |
| PCB206 | 0.069 | 0.20 | 0.045 | 1.00 | J |
| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> | | |
| 2-Fluorobiphenyl | 55 | 10-150 | | | |
| p-Terphenyl-d14 | 55 | 10-150 | | | |



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Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 10/08/14
Work Order: 14-10-0602
Preparation: EPA 3541
Method: EPA 8270C SIM PCB Congeners
Units: ug/kg

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| OB-FF-CH-C3-20141008 | 14-10-0602-21-AA | 10/08/14 12:03 | Tissue | GC/MS NNN | 10/11/14 | 10/18/14 18:21 | 141011L04 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------|--------|------|-------|------|------------|
| PCB018 | 0.064 | 0.20 | 0.039 | 1.00 | J |
| PCB028 | 0.090 | 0.20 | 0.055 | 1.00 | J |
| PCB037 | ND | 0.20 | 0.035 | 1.00 | |
| PCB044 | ND | 0.20 | 0.092 | 1.00 | |
| PCB049 | 0.12 | 0.20 | 0.086 | 1.00 | J |
| PCB052 | 0.18 | 0.20 | 0.051 | 1.00 | J |
| PCB066 | 0.17 | 0.20 | 0.075 | 1.00 | J |
| PCB070 | 0.086 | 0.20 | 0.048 | 1.00 | J |
| PCB074 | 0.10 | 0.20 | 0.046 | 1.00 | J |
| PCB077 | ND | 0.20 | 0.085 | 1.00 | |
| PCB081 | ND | 0.20 | 0.064 | 1.00 | |
| PCB087 | 0.23 | 0.20 | 0.041 | 1.00 | |
| PCB099 | 0.64 | 0.20 | 0.054 | 1.00 | |
| PCB101 | 0.73 | 0.20 | 0.051 | 1.00 | |
| PCB105 | 0.27 | 0.20 | 0.042 | 1.00 | |
| PCB110 | 0.36 | 0.20 | 0.046 | 1.00 | |
| PCB114 | ND | 0.20 | 0.036 | 1.00 | |
| PCB118 | 0.79 | 0.20 | 0.059 | 1.00 | |
| PCB119 | 0.057 | 0.20 | 0.046 | 1.00 | J |
| PCB123 | 0.086 | 0.20 | 0.047 | 1.00 | J |
| PCB126 | ND | 0.20 | 0.034 | 1.00 | |
| PCB128 | 0.27 | 0.20 | 0.039 | 1.00 | |
| PCB132/153 | 2.8 | 0.40 | 0.067 | 1.00 | |
| PCB138/158 | 1.6 | 0.40 | 0.075 | 1.00 | |
| PCB149 | 0.42 | 0.20 | 0.048 | 1.00 | |
| PCB151 | 0.19 | 0.20 | 0.062 | 1.00 | J |
| PCB156 | 0.11 | 0.20 | 0.066 | 1.00 | J |
| PCB157 | 0.061 | 0.20 | 0.051 | 1.00 | J |
| PCB167 | ND | 0.20 | 0.042 | 1.00 | |
| PCB168 | ND | 0.20 | 0.045 | 1.00 | |
| PCB169 | 0.069 | 0.20 | 0.033 | 1.00 | J |
| PCB170 | 0.24 | 0.20 | 0.050 | 1.00 | |
| PCB177 | 0.13 | 0.20 | 0.040 | 1.00 | J |
| PCB180 | 0.56 | 0.20 | 0.030 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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Analytical Report

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27201 Puerta Real, Suite 350
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Date Received: 10/08/14
Work Order: 14-10-0602
Preparation: EPA 3541
Method: EPA 8270C SIM PCB Congeners
Units: ug/kg

Project: GWMA - TMDL Compliance Monitoring

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| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|-----------------|-----------------------|-------------------|-----------|-------------------|
| PCB183 | 0.23 | 0.20 | 0.032 | 1.00 | |
| PCB187 | 0.71 | 0.20 | 0.039 | 1.00 | |
| PCB189 | 0.038 | 0.20 | 0.025 | 1.00 | J |
| PCB194 | 0.11 | 0.20 | 0.041 | 1.00 | J |
| PCB195 | ND | 0.20 | 0.032 | 1.00 | |
| PCB201 | 0.060 | 0.20 | 0.044 | 1.00 | J |
| PCB206 | 0.059 | 0.20 | 0.045 | 1.00 | J |
| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> | | |
| 2-Fluorobiphenyl | 47 | 10-150 | | | |
| p-Terphenyl-d14 | 47 | 10-150 | | | |


 Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

| | | |
|------------------------------|----------------|-----------------------------|
| ANCHOR QEA, LLC | Date Received: | 10/08/14 |
| 27201 Puerta Real, Suite 350 | Work Order: | 14-10-0602 |
| Mission Viejo, CA 92691-8306 | Preparation: | EPA 3541 |
| | Method: | EPA 8270C SIM PCB Congeners |
| | Units: | ug/kg |

Project: GWMA - TMDL Compliance Monitoring Page 43 of 58

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| OB-FF-WC-C1-20141008 | 14-10-0602-22-AA | 10/08/14 11:46 | Tissue | GC/MS NNN | 10/11/14 | 10/18/14 18:44 | 141011L04 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------|--------|------|-------|------|------------|
| PCB018 | 0.26 | 0.20 | 0.039 | 1.00 | |
| PCB028 | 0.92 | 0.20 | 0.055 | 1.00 | |
| PCB037 | ND | 0.20 | 0.035 | 1.00 | |
| PCB044 | 0.94 | 0.20 | 0.092 | 1.00 | |
| PCB049 | 1.9 | 0.20 | 0.086 | 1.00 | |
| PCB052 | 2.0 | 0.20 | 0.051 | 1.00 | |
| PCB066 | 2.8 | 0.20 | 0.075 | 1.00 | |
| PCB070 | 1.6 | 0.20 | 0.048 | 1.00 | |
| PCB074 | 1.4 | 0.20 | 0.046 | 1.00 | |
| PCB077 | 0.78 | 0.20 | 0.085 | 1.00 | |
| PCB081 | ND | 0.20 | 0.064 | 1.00 | |
| PCB087 | 4.0 | 0.20 | 0.041 | 1.00 | |
| PCB099 | 5.7 | 0.20 | 0.054 | 1.00 | |
| PCB101 | 6.8 | 0.20 | 0.051 | 1.00 | |
| PCB105 | 2.4 | 0.20 | 0.042 | 1.00 | |
| PCB110 | 4.5 | 0.20 | 0.046 | 1.00 | |
| PCB114 | ND | 0.20 | 0.036 | 1.00 | |
| PCB118 | 7.8 | 0.20 | 0.059 | 1.00 | |
| PCB119 | 0.27 | 0.20 | 0.046 | 1.00 | |
| PCB123 | 0.90 | 0.20 | 0.047 | 1.00 | |
| PCB126 | ND | 0.20 | 0.034 | 1.00 | |
| PCB128 | 2.0 | 0.20 | 0.039 | 1.00 | |
| PCB132/153 | 18 | 0.40 | 0.067 | 1.00 | |
| PCB138/158 | 12 | 0.40 | 0.075 | 1.00 | |
| PCB149 | 5.9 | 0.20 | 0.048 | 1.00 | |
| PCB151 | 1.7 | 0.20 | 0.062 | 1.00 | |
| PCB156 | 0.83 | 0.20 | 0.066 | 1.00 | |
| PCB157 | 0.22 | 0.20 | 0.051 | 1.00 | |
| PCB167 | ND | 0.20 | 0.042 | 1.00 | |
| PCB168 | ND | 0.20 | 0.045 | 1.00 | |
| PCB169 | 0.42 | 0.20 | 0.033 | 1.00 | |
| PCB170 | 2.4 | 0.20 | 0.050 | 1.00 | |
| PCB177 | 1.3 | 0.20 | 0.040 | 1.00 | |
| PCB180 | 4.8 | 0.20 | 0.030 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 10/08/14
 Work Order: 14-10-0602
 Preparation: EPA 3541
 Method: EPA 8270C SIM PCB Congeners
 Units: ug/kg

Project: GWMA - TMDL Compliance Monitoring

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| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|-----------------|-----------------------|-------------------|-----------|-------------------|
| PCB183 | 1.7 | 0.20 | 0.032 | 1.00 | |
| PCB187 | 5.0 | 0.20 | 0.039 | 1.00 | |
| PCB189 | 0.082 | 0.20 | 0.025 | 1.00 | J |
| PCB194 | 0.99 | 0.20 | 0.041 | 1.00 | |
| PCB195 | 0.38 | 0.20 | 0.032 | 1.00 | |
| PCB201 | 0.25 | 0.20 | 0.044 | 1.00 | |
| PCB206 | 0.74 | 0.20 | 0.045 | 1.00 | |
| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> | | |
| 2-Fluorobiphenyl | 48 | 10-150 | | | |
| p-Terphenyl-d14 | 50 | 10-150 | | | |


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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 10/08/14
Work Order: 14-10-0602
Preparation: EPA 3541
Method: EPA 8270C SIM PCB Congeners
Units: ug/kg

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| OB-FF-WC-C2-20141008 | 14-10-0602-23-AA | 10/08/14 11:46 | Tissue | GC/MS NNN | 10/11/14 | 10/18/14 19:08 | 141011L04 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------|--------|------|-------|------|------------|
| PCB018 | 0.75 | 0.20 | 0.039 | 1.00 | |
| PCB028 | 1.8 | 0.20 | 0.055 | 1.00 | |
| PCB037 | ND | 0.20 | 0.035 | 1.00 | |
| PCB044 | 1.8 | 0.20 | 0.092 | 1.00 | |
| PCB049 | 2.9 | 0.20 | 0.086 | 1.00 | |
| PCB052 | 3.0 | 0.20 | 0.051 | 1.00 | |
| PCB066 | 3.5 | 0.20 | 0.075 | 1.00 | |
| PCB070 | 2.4 | 0.20 | 0.048 | 1.00 | |
| PCB074 | 1.8 | 0.20 | 0.046 | 1.00 | |
| PCB077 | 0.97 | 0.20 | 0.085 | 1.00 | |
| PCB081 | ND | 0.20 | 0.064 | 1.00 | |
| PCB087 | 3.8 | 0.20 | 0.041 | 1.00 | |
| PCB099 | 6.4 | 0.20 | 0.054 | 1.00 | |
| PCB101 | 9.1 | 0.20 | 0.051 | 1.00 | |
| PCB105 | 2.9 | 0.20 | 0.042 | 1.00 | |
| PCB110 | 6.1 | 0.20 | 0.046 | 1.00 | |
| PCB114 | 0.19 | 0.20 | 0.036 | 1.00 | J |
| PCB118 | 9.2 | 0.20 | 0.059 | 1.00 | |
| PCB119 | 0.36 | 0.20 | 0.046 | 1.00 | |
| PCB123 | 1.1 | 0.20 | 0.047 | 1.00 | |
| PCB126 | ND | 0.20 | 0.034 | 1.00 | |
| PCB128 | 2.0 | 0.20 | 0.039 | 1.00 | |
| PCB132/153 | 21 | 0.40 | 0.067 | 1.00 | |
| PCB138/158 | 14 | 0.40 | 0.075 | 1.00 | |
| PCB149 | 7.1 | 0.20 | 0.048 | 1.00 | |
| PCB151 | 2.3 | 0.20 | 0.062 | 1.00 | |
| PCB156 | 0.93 | 0.20 | 0.066 | 1.00 | |
| PCB157 | 0.20 | 0.20 | 0.051 | 1.00 | |
| PCB167 | 0.66 | 0.20 | 0.042 | 1.00 | |
| PCB168 | ND | 0.20 | 0.045 | 1.00 | |
| PCB169 | 0.41 | 0.20 | 0.033 | 1.00 | |
| PCB170 | 2.7 | 0.20 | 0.050 | 1.00 | |
| PCB177 | 1.4 | 0.20 | 0.040 | 1.00 | |
| PCB180 | 5.6 | 0.20 | 0.030 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 10/08/14
 Work Order: 14-10-0602
 Preparation: EPA 3541
 Method: EPA 8270C SIM PCB Congeners
 Units: ug/kg

Project: GWMA - TMDL Compliance Monitoring

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| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|-----------------|-----------------------|-------------------|-----------|-------------------|
| PCB183 | 1.9 | 0.20 | 0.032 | 1.00 | |
| PCB187 | 5.4 | 0.20 | 0.039 | 1.00 | |
| PCB189 | 0.12 | 0.20 | 0.025 | 1.00 | J |
| PCB194 | 1.0 | 0.20 | 0.041 | 1.00 | |
| PCB195 | 0.41 | 0.20 | 0.032 | 1.00 | |
| PCB201 | 0.23 | 0.20 | 0.044 | 1.00 | |
| PCB206 | 0.63 | 0.20 | 0.045 | 1.00 | |
| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> | | |
| 2-Fluorobiphenyl | 49 | 10-150 | | | |
| p-Terphenyl-d14 | 50 | 10-150 | | | |


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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 10/08/14
Work Order: 14-10-0602
Preparation: EPA 3541
Method: EPA 8270C SIM PCB Congeners
Units: ug/kg

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| OB-FF-WC-C3-20141008 | 14-10-0602-24-AA | 10/08/14 11:46 | Tissue | GC/MS NNN | 10/11/14 | 10/18/14 19:31 | 141011L04 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------|--------|------|-------|------|------------|
| PCB018 | 0.96 | 0.20 | 0.039 | 1.00 | |
| PCB028 | 2.2 | 0.20 | 0.055 | 1.00 | |
| PCB037 | ND | 0.20 | 0.035 | 1.00 | |
| PCB044 | 2.3 | 0.20 | 0.092 | 1.00 | |
| PCB049 | 2.9 | 0.20 | 0.086 | 1.00 | |
| PCB052 | 3.5 | 0.20 | 0.051 | 1.00 | |
| PCB066 | 4.0 | 0.20 | 0.075 | 1.00 | |
| PCB070 | 3.0 | 0.20 | 0.048 | 1.00 | |
| PCB074 | 2.1 | 0.20 | 0.046 | 1.00 | |
| PCB077 | 1.2 | 0.20 | 0.085 | 1.00 | |
| PCB081 | ND | 0.20 | 0.064 | 1.00 | |
| PCB087 | 4.0 | 0.20 | 0.041 | 1.00 | |
| PCB099 | 6.5 | 0.20 | 0.054 | 1.00 | |
| PCB101 | 9.5 | 0.20 | 0.051 | 1.00 | |
| PCB105 | 3.1 | 0.20 | 0.042 | 1.00 | |
| PCB110 | 6.7 | 0.20 | 0.046 | 1.00 | |
| PCB114 | 0.19 | 0.20 | 0.036 | 1.00 | J |
| PCB118 | 9.6 | 0.20 | 0.059 | 1.00 | |
| PCB119 | 0.36 | 0.20 | 0.046 | 1.00 | |
| PCB123 | 1.0 | 0.20 | 0.047 | 1.00 | |
| PCB126 | ND | 0.20 | 0.034 | 1.00 | |
| PCB128 | 2.1 | 0.20 | 0.039 | 1.00 | |
| PCB132/153 | 22 | 0.40 | 0.067 | 1.00 | |
| PCB138/158 | 14 | 0.40 | 0.075 | 1.00 | |
| PCB149 | 7.7 | 0.20 | 0.048 | 1.00 | |
| PCB151 | 2.4 | 0.20 | 0.062 | 1.00 | |
| PCB156 | 1.0 | 0.20 | 0.066 | 1.00 | |
| PCB157 | 0.24 | 0.20 | 0.051 | 1.00 | |
| PCB167 | 0.72 | 0.20 | 0.042 | 1.00 | |
| PCB168 | ND | 0.20 | 0.045 | 1.00 | |
| PCB169 | 0.49 | 0.20 | 0.033 | 1.00 | |
| PCB170 | 2.9 | 0.20 | 0.050 | 1.00 | |
| PCB177 | 1.6 | 0.20 | 0.040 | 1.00 | |
| PCB180 | 6.4 | 0.20 | 0.030 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 10/08/14
 Work Order: 14-10-0602
 Preparation: EPA 3541
 Method: EPA 8270C SIM PCB Congeners
 Units: ug/kg

Project: GWMA - TMDL Compliance Monitoring

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| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|-----------------|-----------------------|-------------------|-----------|-------------------|
| PCB183 | 2.0 | 0.20 | 0.032 | 1.00 | |
| PCB187 | 5.6 | 0.20 | 0.039 | 1.00 | |
| PCB189 | 0.15 | 0.20 | 0.025 | 1.00 | J |
| PCB194 | 1.2 | 0.20 | 0.041 | 1.00 | |
| PCB195 | 0.42 | 0.20 | 0.032 | 1.00 | |
| PCB201 | 0.23 | 0.20 | 0.044 | 1.00 | |
| PCB206 | 0.76 | 0.20 | 0.045 | 1.00 | |
| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> | | |
| 2-Fluorobiphenyl | 48 | 10-150 | | | |
| p-Terphenyl-d14 | 46 | 10-150 | | | |

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

| | | |
|------------------------------|----------------|-----------------------------|
| ANCHOR QEA, LLC | Date Received: | 10/08/14 |
| 27201 Puerta Real, Suite 350 | Work Order: | 14-10-0602 |
| Mission Viejo, CA 92691-8306 | Preparation: | EPA 3541 |
| | Method: | EPA 8270C SIM PCB Congeners |
| | Units: | ug/kg |

Project: GWMA - TMDL Compliance Monitoring Page 49 of 58

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| OB-WO-WS-C1-20141008 | 14-10-0602-25-AA | 10/08/14 11:52 | Tissue | GC/MS NNN | 10/11/14 | 10/18/14 19:54 | 141011L04 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------|--------|------|-------|------|------------|
| PCB018 | 0.46 | 0.20 | 0.039 | 1.00 | |
| PCB028 | 2.9 | 0.20 | 0.055 | 1.00 | |
| PCB037 | 0.31 | 0.20 | 0.035 | 1.00 | |
| PCB044 | 1.2 | 0.20 | 0.092 | 1.00 | |
| PCB049 | 4.5 | 0.20 | 0.086 | 1.00 | |
| PCB052 | 5.6 | 0.20 | 0.051 | 1.00 | |
| PCB066 | 5.3 | 0.20 | 0.075 | 1.00 | |
| PCB070 | 4.8 | 0.20 | 0.048 | 1.00 | |
| PCB074 | 3.3 | 0.20 | 0.046 | 1.00 | |
| PCB077 | 1.5 | 0.20 | 0.085 | 1.00 | |
| PCB081 | ND | 0.20 | 0.064 | 1.00 | |
| PCB087 | 5.2 | 0.20 | 0.041 | 1.00 | |
| PCB099 | 12 | 0.20 | 0.054 | 1.00 | |
| PCB101 | 17 | 0.20 | 0.051 | 1.00 | |
| PCB105 | 6.0 | 0.20 | 0.042 | 1.00 | |
| PCB110 | 6.7 | 0.20 | 0.046 | 1.00 | |
| PCB114 | 0.37 | 0.20 | 0.036 | 1.00 | |
| PCB118 | 20 | 0.20 | 0.059 | 1.00 | |
| PCB119 | 0.61 | 0.20 | 0.046 | 1.00 | |
| PCB123 | 2.3 | 0.20 | 0.047 | 1.00 | |
| PCB126 | 0.088 | 0.20 | 0.034 | 1.00 | J |
| PCB128 | 3.6 | 0.20 | 0.039 | 1.00 | |
| PCB132/153 | 43 | 0.40 | 0.067 | 1.00 | |
| PCB138/158 | 28 | 0.40 | 0.075 | 1.00 | |
| PCB149 | 7.3 | 0.20 | 0.048 | 1.00 | |
| PCB151 | 4.3 | 0.20 | 0.062 | 1.00 | |
| PCB156 | 2.2 | 0.20 | 0.066 | 1.00 | |
| PCB157 | 0.47 | 0.20 | 0.051 | 1.00 | |
| PCB167 | 1.3 | 0.20 | 0.042 | 1.00 | |
| PCB168 | ND | 0.20 | 0.045 | 1.00 | |
| PCB169 | 0.57 | 0.20 | 0.033 | 1.00 | |
| PCB170 | 5.4 | 0.20 | 0.050 | 1.00 | |
| PCB177 | 2.3 | 0.20 | 0.040 | 1.00 | |
| PCB180 | 13 | 0.20 | 0.030 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 10/08/14
 Work Order: 14-10-0602
 Preparation: EPA 3541
 Method: EPA 8270C SIM PCB Congeners
 Units: ug/kg

Project: GWMA - TMDL Compliance Monitoring

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| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|-----------------|-----------------------|-------------------|-----------|-------------------|
| PCB183 | 4.1 | 0.20 | 0.032 | 1.00 | |
| PCB187 | 10 | 0.20 | 0.039 | 1.00 | |
| PCB189 | 0.25 | 0.20 | 0.025 | 1.00 | |
| PCB194 | 1.8 | 0.20 | 0.041 | 1.00 | |
| PCB195 | 0.66 | 0.20 | 0.032 | 1.00 | |
| PCB201 | 0.37 | 0.20 | 0.044 | 1.00 | |
| PCB206 | 0.73 | 0.20 | 0.045 | 1.00 | |
| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> | | |
| 2-Fluorobiphenyl | 41 | 10-150 | | | |
| p-Terphenyl-d14 | 43 | 10-150 | | | |


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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 10/08/14
Work Order: 14-10-0602
Preparation: EPA 3541
Method: EPA 8270C SIM PCB Congeners
Units: ug/kg

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| OB-WO-WS-C2-20141008 | 14-10-0602-26-AA | 10/08/14 11:52 | Tissue | GC/MS NNN | 10/11/14 | 10/18/14 20:18 | 141011L04 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------|--------|------|-------|------|------------|
| PCB018 | 0.16 | 0.20 | 0.039 | 1.00 | J |
| PCB028 | 1.2 | 0.20 | 0.055 | 1.00 | |
| PCB037 | 0.17 | 0.20 | 0.035 | 1.00 | J |
| PCB044 | 0.58 | 0.20 | 0.092 | 1.00 | |
| PCB049 | 2.4 | 0.20 | 0.086 | 1.00 | |
| PCB052 | 2.5 | 0.20 | 0.051 | 1.00 | |
| PCB066 | 2.8 | 0.20 | 0.075 | 1.00 | |
| PCB070 | 2.1 | 0.20 | 0.048 | 1.00 | |
| PCB074 | 1.7 | 0.20 | 0.046 | 1.00 | |
| PCB077 | 0.64 | 0.20 | 0.085 | 1.00 | |
| PCB081 | ND | 0.20 | 0.064 | 1.00 | |
| PCB087 | 2.6 | 0.20 | 0.041 | 1.00 | |
| PCB099 | 6.4 | 0.20 | 0.054 | 1.00 | |
| PCB101 | 7.3 | 0.20 | 0.051 | 1.00 | |
| PCB105 | 2.8 | 0.20 | 0.042 | 1.00 | |
| PCB110 | 2.6 | 0.20 | 0.046 | 1.00 | |
| PCB114 | 0.082 | 0.20 | 0.036 | 1.00 | J |
| PCB118 | 8.9 | 0.20 | 0.059 | 1.00 | |
| PCB119 | 0.34 | 0.20 | 0.046 | 1.00 | |
| PCB123 | 1.1 | 0.20 | 0.047 | 1.00 | |
| PCB126 | ND | 0.20 | 0.034 | 1.00 | |
| PCB128 | 1.8 | 0.20 | 0.039 | 1.00 | |
| PCB132/153 | 20 | 0.40 | 0.067 | 1.00 | |
| PCB138/158 | 13 | 0.40 | 0.075 | 1.00 | |
| PCB149 | 3.4 | 0.20 | 0.048 | 1.00 | |
| PCB151 | 1.9 | 0.20 | 0.062 | 1.00 | |
| PCB156 | 0.99 | 0.20 | 0.066 | 1.00 | |
| PCB157 | 0.25 | 0.20 | 0.051 | 1.00 | |
| PCB167 | 0.65 | 0.20 | 0.042 | 1.00 | |
| PCB168 | ND | 0.20 | 0.045 | 1.00 | |
| PCB169 | 0.50 | 0.20 | 0.033 | 1.00 | |
| PCB170 | 3.0 | 0.20 | 0.050 | 1.00 | |
| PCB177 | 1.2 | 0.20 | 0.040 | 1.00 | |
| PCB180 | 7.0 | 0.20 | 0.030 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 10/08/14
 Work Order: 14-10-0602
 Preparation: EPA 3541
 Method: EPA 8270C SIM PCB Congeners
 Units: ug/kg

Project: GWMA - TMDL Compliance Monitoring

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| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|-----------------|-----------------------|-------------------|-----------|-------------------|
| PCB183 | 2.1 | 0.20 | 0.032 | 1.00 | |
| PCB187 | 5.8 | 0.20 | 0.039 | 1.00 | |
| PCB189 | 0.17 | 0.20 | 0.025 | 1.00 | J |
| PCB194 | 1.4 | 0.20 | 0.041 | 1.00 | |
| PCB195 | 0.50 | 0.20 | 0.032 | 1.00 | |
| PCB201 | 0.25 | 0.20 | 0.044 | 1.00 | |
| PCB206 | 0.80 | 0.20 | 0.045 | 1.00 | |
| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> | | |
| 2-Fluorobiphenyl | 35 | 10-150 | | | |
| p-Terphenyl-d14 | 34 | 10-150 | | | |

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 10/08/14
Work Order: 14-10-0602
Preparation: EPA 3541
Method: EPA 8270C SIM PCB Congeners
Units: ug/kg

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| OB-WO-WS-C3-20141008 | 14-10-0602-27-AA | 10/08/14 11:52 | Tissue | GC/MS NNN | 10/11/14 | 10/18/14 20:41 | 141011L04 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------|--------|------|-------|------|------------|
| PCB018 | 0.18 | 0.20 | 0.039 | 1.00 | J |
| PCB028 | 0.88 | 0.20 | 0.055 | 1.00 | |
| PCB037 | 0.071 | 0.20 | 0.035 | 1.00 | J |
| PCB044 | 0.31 | 0.20 | 0.092 | 1.00 | |
| PCB049 | 1.6 | 0.20 | 0.086 | 1.00 | |
| PCB052 | 1.9 | 0.20 | 0.051 | 1.00 | |
| PCB066 | 2.1 | 0.20 | 0.075 | 1.00 | |
| PCB070 | 1.5 | 0.20 | 0.048 | 1.00 | |
| PCB074 | 1.3 | 0.20 | 0.046 | 1.00 | |
| PCB077 | 0.45 | 0.20 | 0.085 | 1.00 | |
| PCB081 | ND | 0.20 | 0.064 | 1.00 | |
| PCB087 | 2.3 | 0.20 | 0.041 | 1.00 | |
| PCB099 | 5.2 | 0.20 | 0.054 | 1.00 | |
| PCB101 | 6.0 | 0.20 | 0.051 | 1.00 | |
| PCB105 | 2.5 | 0.20 | 0.042 | 1.00 | |
| PCB110 | 2.1 | 0.20 | 0.046 | 1.00 | |
| PCB114 | ND | 0.20 | 0.036 | 1.00 | |
| PCB118 | 8.1 | 0.20 | 0.059 | 1.00 | |
| PCB119 | 0.26 | 0.20 | 0.046 | 1.00 | |
| PCB123 | 1.0 | 0.20 | 0.047 | 1.00 | |
| PCB126 | ND | 0.20 | 0.034 | 1.00 | |
| PCB128 | 1.5 | 0.20 | 0.039 | 1.00 | |
| PCB132/153 | 17 | 0.40 | 0.067 | 1.00 | |
| PCB138/158 | 11 | 0.40 | 0.075 | 1.00 | |
| PCB149 | 1.9 | 0.20 | 0.048 | 1.00 | |
| PCB151 | 1.5 | 0.20 | 0.062 | 1.00 | |
| PCB156 | 0.97 | 0.20 | 0.066 | 1.00 | |
| PCB157 | 0.20 | 0.20 | 0.051 | 1.00 | |
| PCB167 | 0.56 | 0.20 | 0.042 | 1.00 | |
| PCB168 | ND | 0.20 | 0.045 | 1.00 | |
| PCB169 | 0.24 | 0.20 | 0.033 | 1.00 | |
| PCB170 | 2.1 | 0.20 | 0.050 | 1.00 | |
| PCB177 | 0.70 | 0.20 | 0.040 | 1.00 | |
| PCB180 | 4.5 | 0.20 | 0.030 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 10/08/14
Work Order: 14-10-0602
Preparation: EPA 3541
Method: EPA 8270C SIM PCB Congeners
Units: ug/kg

Project: GWMA - TMDL Compliance Monitoring

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| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|-----------------|-----------------------|-------------------|-----------|-------------------|
| PCB183 | 1.4 | 0.20 | 0.032 | 1.00 | |
| PCB187 | 3.5 | 0.20 | 0.039 | 1.00 | |
| PCB189 | 0.12 | 0.20 | 0.025 | 1.00 | J |
| PCB194 | 0.66 | 0.20 | 0.041 | 1.00 | |
| PCB195 | 0.25 | 0.20 | 0.032 | 1.00 | |
| PCB201 | 0.13 | 0.20 | 0.044 | 1.00 | J |
| PCB206 | 0.32 | 0.20 | 0.045 | 1.00 | |
| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> | | |
| 2-Fluorobiphenyl | 48 | 10-150 | | | |
| p-Terphenyl-d14 | 50 | 10-150 | | | |

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

| | | |
|------------------------------|----------------|-----------------------------|
| ANCHOR QEA, LLC | Date Received: | 10/08/14 |
| 27201 Puerta Real, Suite 350 | Work Order: | 14-10-0602 |
| Mission Viejo, CA 92691-8306 | Preparation: | EPA 3541 |
| | Method: | EPA 8270C SIM PCB Congeners |
| | Units: | ug/kg |

Project: GWMA - TMDL Compliance Monitoring Page 55 of 58

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| Method Blank | 099-16-504-1 | N/A | Tissue | GC/MS NNN | 10/10/14 | 10/17/14 17:30 | 141010L26 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------|--------|------|-------|------|------------|
| PCB018 | ND | 0.20 | 0.039 | 1.00 | |
| PCB028 | ND | 0.20 | 0.055 | 1.00 | |
| PCB037 | ND | 0.20 | 0.035 | 1.00 | |
| PCB044 | ND | 0.20 | 0.092 | 1.00 | |
| PCB049 | ND | 0.20 | 0.086 | 1.00 | |
| PCB052 | ND | 0.20 | 0.051 | 1.00 | |
| PCB066 | ND | 0.20 | 0.075 | 1.00 | |
| PCB070 | ND | 0.20 | 0.048 | 1.00 | |
| PCB074 | ND | 0.20 | 0.046 | 1.00 | |
| PCB077 | ND | 0.20 | 0.085 | 1.00 | |
| PCB081 | ND | 0.20 | 0.064 | 1.00 | |
| PCB087 | ND | 0.20 | 0.041 | 1.00 | |
| PCB099 | ND | 0.20 | 0.054 | 1.00 | |
| PCB101 | ND | 0.20 | 0.051 | 1.00 | |
| PCB105 | ND | 0.20 | 0.042 | 1.00 | |
| PCB110 | ND | 0.20 | 0.046 | 1.00 | |
| PCB114 | ND | 0.20 | 0.036 | 1.00 | |
| PCB118 | ND | 0.20 | 0.059 | 1.00 | |
| PCB119 | ND | 0.20 | 0.046 | 1.00 | |
| PCB123 | ND | 0.20 | 0.047 | 1.00 | |
| PCB126 | ND | 0.20 | 0.034 | 1.00 | |
| PCB128 | ND | 0.20 | 0.039 | 1.00 | |
| PCB132/153 | ND | 0.40 | 0.067 | 1.00 | |
| PCB138/158 | ND | 0.40 | 0.075 | 1.00 | |
| PCB149 | ND | 0.20 | 0.048 | 1.00 | |
| PCB151 | ND | 0.20 | 0.062 | 1.00 | |
| PCB156 | ND | 0.20 | 0.066 | 1.00 | |
| PCB157 | ND | 0.20 | 0.051 | 1.00 | |
| PCB167 | ND | 0.20 | 0.042 | 1.00 | |
| PCB168 | ND | 0.20 | 0.045 | 1.00 | |
| PCB169 | ND | 0.20 | 0.033 | 1.00 | |
| PCB170 | ND | 0.20 | 0.050 | 1.00 | |
| PCB177 | ND | 0.20 | 0.040 | 1.00 | |
| PCB180 | ND | 0.20 | 0.030 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 10/08/14
 Work Order: 14-10-0602
 Preparation: EPA 3541
 Method: EPA 8270C SIM PCB Congeners
 Units: ug/kg

Project: GWMA - TMDL Compliance Monitoring

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| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|-----------------|-----------------------|-------------------|-----------|-------------------|
| PCB183 | ND | 0.20 | 0.032 | 1.00 | |
| PCB187 | ND | 0.20 | 0.039 | 1.00 | |
| PCB189 | ND | 0.20 | 0.025 | 1.00 | |
| PCB194 | ND | 0.20 | 0.041 | 1.00 | |
| PCB195 | ND | 0.20 | 0.032 | 1.00 | |
| PCB201 | ND | 0.20 | 0.044 | 1.00 | |
| PCB206 | ND | 0.20 | 0.045 | 1.00 | |
| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> | | |
| 2-Fluorobiphenyl | 62 | 10-150 | | | |
| p-Terphenyl-d14 | 62 | 10-150 | | | |

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

| | | |
|------------------------------|----------------|-----------------------------|
| ANCHOR QEA, LLC | Date Received: | 10/08/14 |
| 27201 Puerta Real, Suite 350 | Work Order: | 14-10-0602 |
| Mission Viejo, CA 92691-8306 | Preparation: | EPA 3541 |
| | Method: | EPA 8270C SIM PCB Congeners |
| | Units: | ug/kg |

Project: GWMA - TMDL Compliance Monitoring Page 57 of 58

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| Method Blank | 099-16-504-3 | N/A | Tissue | GC/MS NNN | 10/11/14 | 10/17/14 18:04 | 141011L04 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|------------|--------|------|-------|------|------------|
| PCB018 | ND | 0.20 | 0.039 | 1.00 | |
| PCB028 | ND | 0.20 | 0.055 | 1.00 | |
| PCB037 | ND | 0.20 | 0.035 | 1.00 | |
| PCB044 | ND | 0.20 | 0.092 | 1.00 | |
| PCB049 | ND | 0.20 | 0.086 | 1.00 | |
| PCB052 | ND | 0.20 | 0.051 | 1.00 | |
| PCB066 | ND | 0.20 | 0.075 | 1.00 | |
| PCB070 | ND | 0.20 | 0.048 | 1.00 | |
| PCB074 | ND | 0.20 | 0.046 | 1.00 | |
| PCB077 | ND | 0.20 | 0.085 | 1.00 | |
| PCB081 | ND | 0.20 | 0.064 | 1.00 | |
| PCB087 | ND | 0.20 | 0.041 | 1.00 | |
| PCB099 | ND | 0.20 | 0.054 | 1.00 | |
| PCB101 | ND | 0.20 | 0.051 | 1.00 | |
| PCB105 | ND | 0.20 | 0.042 | 1.00 | |
| PCB110 | ND | 0.20 | 0.046 | 1.00 | |
| PCB114 | ND | 0.20 | 0.036 | 1.00 | |
| PCB118 | ND | 0.20 | 0.059 | 1.00 | |
| PCB119 | ND | 0.20 | 0.046 | 1.00 | |
| PCB123 | ND | 0.20 | 0.047 | 1.00 | |
| PCB126 | ND | 0.20 | 0.034 | 1.00 | |
| PCB128 | ND | 0.20 | 0.039 | 1.00 | |
| PCB132/153 | ND | 0.40 | 0.067 | 1.00 | |
| PCB138/158 | ND | 0.40 | 0.075 | 1.00 | |
| PCB149 | ND | 0.20 | 0.048 | 1.00 | |
| PCB151 | ND | 0.20 | 0.062 | 1.00 | |
| PCB156 | ND | 0.20 | 0.066 | 1.00 | |
| PCB157 | ND | 0.20 | 0.051 | 1.00 | |
| PCB167 | ND | 0.20 | 0.042 | 1.00 | |
| PCB168 | ND | 0.20 | 0.045 | 1.00 | |
| PCB169 | ND | 0.20 | 0.033 | 1.00 | |
| PCB170 | ND | 0.20 | 0.050 | 1.00 | |
| PCB177 | ND | 0.20 | 0.040 | 1.00 | |
| PCB180 | ND | 0.20 | 0.030 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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Analytical Report

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 10/08/14
 Work Order: 14-10-0602
 Preparation: EPA 3541
 Method: EPA 8270C SIM PCB Congeners
 Units: ug/kg

Project: GWMA - TMDL Compliance Monitoring

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| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|-----------------|-----------------------|-------------------|-----------|-------------------|
| PCB183 | ND | 0.20 | 0.032 | 1.00 | |
| PCB187 | ND | 0.20 | 0.039 | 1.00 | |
| PCB189 | ND | 0.20 | 0.025 | 1.00 | |
| PCB194 | ND | 0.20 | 0.041 | 1.00 | |
| PCB195 | ND | 0.20 | 0.032 | 1.00 | |
| PCB201 | ND | 0.20 | 0.044 | 1.00 | |
| PCB206 | ND | 0.20 | 0.045 | 1.00 | |
| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> | | |
| 2-Fluorobiphenyl | 49 | 10-150 | | | |
| p-Terphenyl-d14 | 46 | 10-150 | | | |


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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 10/08/14
Work Order: 14-10-0602
Preparation: EPA 3541
Method: MeCl2 Ext. (NOAA 1993a)
Units: %

Project: GWMA - TMDL Compliance Monitoring

Page 1 of 5

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| CP-FF-CH-C1-20141008 | 14-10-0602-1-AA | 10/08/14 11:37 | Tissue | B03/B13 | 10/10/14 | 10/13/14 00:00 | 141010L26 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|------|------|------|------------|
| % Lipids | 0.30 | 0.10 | 0.10 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| CP-FF-CH-C2-20141008 | 14-10-0602-2-AA | 10/08/14 11:37 | Tissue | B03/B13 | 10/10/14 | 10/13/14 00:00 | 141010L26 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|------|------|------|------------|
| % Lipids | 0.33 | 0.10 | 0.10 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| CP-FF-CH-C3-20141008 | 14-10-0602-3-AA | 10/08/14 11:37 | Tissue | B03/B13 | 10/10/14 | 10/13/14 00:00 | 141010L26 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|------|------|------|------------|
| % Lipids | 0.18 | 0.10 | 0.10 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| CP-FF-WC-C1-20141008 | 14-10-0602-4-AA | 10/08/14 11:26 | Tissue | B03/B13 | 10/10/14 | 10/13/14 00:00 | 141010L26 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|------|------|------|------------|
| % Lipids | 5.6 | 0.10 | 0.10 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| CP-FF-WC-C2-20141008 | 14-10-0602-5-AA | 10/08/14 11:26 | Tissue | B03/B13 | 10/10/14 | 10/13/14 00:00 | 141010L26 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|------|------|------|------------|
| % Lipids | 5.0 | 0.10 | 0.10 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| CP-FF-WC-C3-20141008 | 14-10-0602-6-AA | 10/08/14 11:26 | Tissue | B03/B13 | 10/10/14 | 10/13/14 00:00 | 141010L26 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|------|------|------|------------|
| % Lipids | 3.4 | 0.10 | 0.10 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 10/08/14
Work Order: 14-10-0602
Preparation: EPA 3541
Method: MeCl2 Ext. (NOAA 1993a)
Units: %

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| CP-WO-WS-C1-20141008 | 14-10-0602-7-AA | 10/08/14 11:14 | Tissue | B03/B13 | 10/10/14 | 10/13/14 00:00 | 141010L26 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|------|------|------|------------|
| % Lipids | 2.1 | 0.10 | 0.10 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| CP-WO-WS-C2-20141008 | 14-10-0602-8-AA | 10/08/14 11:14 | Tissue | B03/B13 | 10/10/14 | 10/13/14 00:00 | 141010L26 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|------|------|------|------------|
| % Lipids | 1.2 | 0.10 | 0.10 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| CP-WO-WS-C3-20141008 | 14-10-0602-9-AA | 10/08/14 11:14 | Tissue | B03/B13 | 10/10/14 | 10/13/14 00:00 | 141010L26 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|------|------|------|------------|
| % Lipids | 1.3 | 0.10 | 0.10 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| SP-FF-CH-C1-20141008 | 14-10-0602-10-AA | 10/08/14 12:10 | Tissue | B03/B13 | 10/10/14 | 10/13/14 00:00 | 141010L26 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|------|------|------|------------|
| % Lipids | 0.25 | 0.10 | 0.10 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| SP-FF-CH-C2-20141008 | 14-10-0602-11-AA | 10/08/14 12:10 | Tissue | B03/B13 | 10/10/14 | 10/13/14 00:00 | 141010L26 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|------|------|------|------------|
| % Lipids | 0.24 | 0.10 | 0.10 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| SP-FF-CH-C3-20141008 | 14-10-0602-12-AA | 10/08/14 12:10 | Tissue | B03/B13 | 10/10/14 | 10/13/14 00:00 | 141010L26 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|------|------|------|------------|
| % Lipids | 0.35 | 0.10 | 0.10 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 10/08/14
Work Order: 14-10-0602
Preparation: EPA 3541
Method: MeCl2 Ext. (NOAA 1993a)
Units: %

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| SP-WO-PP-C1-20141008 | 14-10-0602-13-AA | 10/08/14 12:19 | Tissue | B03/B13 | 10/10/14 | 10/13/14 00:00 | 141010L26 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|------|------|------|------------|
| % Lipids | 6.0 | 0.10 | 0.10 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| SP-WO-PP-C2-20141008 | 14-10-0602-14-AA | 10/08/14 12:19 | Tissue | B03/B13 | 10/10/14 | 10/13/14 00:00 | 141010L26 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|------|------|------|------------|
| % Lipids | 7.7 | 0.10 | 0.10 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| SP-WO-PP-C3-20141008 | 14-10-0602-15-AA | 10/08/14 12:19 | Tissue | B03/B13 | 10/11/14 | 10/13/14 00:00 | 141011L04 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|------|------|------|------------|
| % Lipids | 2.4 | 0.10 | 0.10 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| SP-FF-WC-C1-20141008 | 14-10-0602-16-AA | 10/08/14 12:26 | Tissue | B03/B13 | 10/11/14 | 10/13/14 00:00 | 141011L04 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|------|------|------|------------|
| % Lipids | 3.6 | 0.10 | 0.10 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| SP-FF-WC-C2-20141008 | 14-10-0602-17-AA | 10/08/14 12:26 | Tissue | B03/B13 | 10/11/14 | 10/13/14 00:00 | 141011L04 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|------|------|------|------------|
| % Lipids | 2.4 | 0.10 | 0.10 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| SP-FF-WC-C3-20141008 | 14-10-0602-18-AA | 10/08/14 12:26 | Tissue | B03/B13 | 10/11/14 | 10/13/14 00:00 | 141011L04 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|------|------|------|------------|
| % Lipids | 5.2 | 0.10 | 0.10 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 10/08/14
Work Order: 14-10-0602
Preparation: EPA 3541
Method: MeCl2 Ext. (NOAA 1993a)
Units: %

Project: GWMA - TMDL Compliance Monitoring

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| OB-FF-CH-C1-20141008 | 14-10-0602-19-AA | 10/08/14 12:03 | Tissue | B03/B13 | 10/11/14 | 10/13/14 00:00 | 141011L04 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|------|------|------|------------|
| % Lipids | 0.38 | 0.10 | 0.10 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| OB-FF-CH-C2-20141008 | 14-10-0602-20-AA | 10/08/14 12:03 | Tissue | B03/B13 | 10/11/14 | 10/13/14 00:00 | 141011L04 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|------|------|------|------------|
| % Lipids | 0.23 | 0.10 | 0.10 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| OB-FF-CH-C3-20141008 | 14-10-0602-21-AA | 10/08/14 12:03 | Tissue | B03/B13 | 10/11/14 | 10/13/14 00:00 | 141011L04 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|------|------|------|------------|
| % Lipids | 0.25 | 0.10 | 0.10 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| OB-FF-WC-C1-20141008 | 14-10-0602-22-AA | 10/08/14 11:46 | Tissue | B03/B13 | 10/11/14 | 10/13/14 00:00 | 141011L04 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|------|------|------|------------|
| % Lipids | 3.7 | 0.10 | 0.10 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| OB-FF-WC-C2-20141008 | 14-10-0602-23-AA | 10/08/14 11:46 | Tissue | B03/B13 | 10/11/14 | 10/13/14 00:00 | 141011L04 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|------|------|------|------------|
| % Lipids | 5.3 | 0.10 | 0.10 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| OB-FF-WC-C3-20141008 | 14-10-0602-24-AA | 10/08/14 11:46 | Tissue | B03/B13 | 10/11/14 | 10/13/14 00:00 | 141011L04 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|------|------|------|------------|
| % Lipids | 7.2 | 0.10 | 0.10 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 10/08/14
Work Order: 14-10-0602
Preparation: EPA 3541
Method: MeCl2 Ext. (NOAA 1993a)
Units: %

Project: GWMA - TMDL Compliance Monitoring

Page 5 of 5

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| OB-WO-WS-C1-20141008 | 14-10-0602-25-AA | 10/08/14 11:52 | Tissue | B03/B13 | 10/11/14 | 10/13/14 00:00 | 141011L04 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|------|------|------|------------|
| % Lipids | 7.4 | 0.10 | 0.10 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| OB-WO-WS-C2-20141008 | 14-10-0602-26-AA | 10/08/14 11:52 | Tissue | B03/B13 | 10/11/14 | 10/13/14 00:00 | 141011L04 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|------|------|------|------------|
| % Lipids | 6.6 | 0.10 | 0.10 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| OB-WO-WS-C3-20141008 | 14-10-0602-27-AA | 10/08/14 11:52 | Tissue | B03/B13 | 10/11/14 | 10/13/14 00:00 | 141011L04 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|------|------|------|------------|
| % Lipids | 2.0 | 0.10 | 0.10 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| Method Blank | 099-14-104-94 | N/A | Solid | B03/B13 | 10/10/14 | 10/13/14 00:00 | 141010L26 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|------|------|------|------------|
| % Lipids | ND | 0.10 | 0.10 | 1.00 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| Method Blank | 099-14-104-95 | N/A | Solid | B03/B13 | 10/11/14 | 10/13/14 00:00 | 141011L04 |

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF | Qualifiers |
|-----------|--------|------|------|------|------------|
| % Lipids | ND | 0.10 | 0.10 | 1.00 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Quality Control - Spike/Spike Duplicate

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 10/08/14
Work Order: 14-10-0602
Preparation: EPA 3541
Method: EPA 8270C PEST-SIM

Project: GWMA - TMDL Compliance Monitoring

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| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | MS/MSD Batch Number | | | | |
|---------------------------|------------------------|-------------|------------|---------------|----------------|---------------------|----------|-----|--------|------------|
| CP-FF-CH-C1-20141008 | Sample | Tissue | GC/MS NNN | 10/10/14 | 11/13/14 15:48 | 141010L26 | | | | |
| CP-FF-CH-C1-20141008 | Matrix Spike | Tissue | GC/MS NNN | 10/10/14 | 11/14/14 14:33 | 141010L26 | | | | |
| CP-FF-CH-C1-20141008 | Matrix Spike Duplicate | Tissue | GC/MS NNN | 10/10/14 | 11/14/14 14:51 | 141010L26 | | | | |
| Parameter | Sample Conc. | Spike Added | MS Conc. | MS %Rec. | MSD Conc. | MSD %Rec. | %Rec. CL | RPD | RPD CL | Qualifiers |
| Alpha Chlordane | ND | 5.000 | 2.262 | 45 | 2.031 | 41 | 10-150 | 11 | 0-30 | |
| 4,4'-DDD | ND | 5.000 | 2.406 | 48 | 2.183 | 44 | 10-150 | 10 | 0-30 | |
| 4,4'-DDE | 12.06 | 5.000 | 15.33 | 65 | 12.74 | 14 | 10-150 | 18 | 0-30 | |
| 4,4'-DDT | ND | 5.000 | 3.064 | 61 | 2.676 | 54 | 10-150 | 14 | 0-30 | |
| Dieldrin | ND | 5.000 | 3.467 | 69 | 2.558 | 51 | 10-150 | 30 | 0-30 | |
| Gamma Chlordane | ND | 5.000 | 2.402 | 48 | 2.086 | 42 | 10-150 | 14 | 0-30 | |

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RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - Spike/Spike Duplicate

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 10/08/14
Work Order: 14-10-0602
Preparation: EPA 3541
Method: EPA 8270C PEST-SIM

Project: GWMA - TMDL Compliance Monitoring

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| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | MS/MSD Batch Number | | | | |
|-----------------------------|-------------------------------|--------------------|------------------|-----------------|-----------------------|---------------------|-----------------|------------|---------------|-------------------|
| OB-FF-WC-C3-20141008 | Sample | Tissue | GC/MS NNN | 10/11/14 | 11/14/14 10:04 | 141011L04 | | | | |
| OB-FF-WC-C3-20141008 | Matrix Spike | Tissue | GC/MS NNN | 10/11/14 | 11/14/14 15:09 | 141011L04 | | | | |
| OB-FF-WC-C3-20141008 | Matrix Spike Duplicate | Tissue | GC/MS NNN | 10/11/14 | 11/14/14 15:27 | 141011L04 | | | | |
| <u>Parameter</u> | <u>Sample Conc.</u> | <u>Spike Added</u> | <u>MS Conc.</u> | <u>MS %Rec.</u> | <u>MSD Conc.</u> | <u>MSD %Rec.</u> | <u>%Rec. CL</u> | <u>RPD</u> | <u>RPD CL</u> | <u>Qualifiers</u> |
| Alpha Chlordane | 0.5801 | 5.000 | 2.577 | 40 | 2.892 | 46 | 10-150 | 11 | 0-30 | |
| 4,4'-DDD | 1.948 | 5.000 | 4.045 | 42 | 4.281 | 47 | 10-150 | 6 | 0-30 | |
| 4,4'-DDE | 148.1 | 5.000 | 136.2 | 0 | 135.1 | 0 | 10-150 | 1 | 0-30 | 3 |
| 4,4'-DDT | 0.2630 | 5.000 | 2.365 | 42 | 2.835 | 51 | 10-150 | 18 | 0-30 | |
| Dieldrin | ND | 5.000 | 7.640 | 153 | 8.162 | 163 | 10-150 | 7 | 0-30 | 3 |
| Gamma Chlordane | 0.2547 | 5.000 | 2.226 | 39 | 2.632 | 48 | 10-150 | 17 | 0-30 | |


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RPD: Relative Percent Difference. CL: Control Limits



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Quality Control - Spike/Spike Duplicate

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 10/08/14
Work Order: 14-10-0602
Preparation: EPA 3541
Method: EPA 8270C PEST-SIM

Project: GWMA - TMDL Compliance Monitoring

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| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | MS/MSD Batch Number | | | | |
|---------------------------|------------------------|-------------|------------|---------------|----------------|---------------------|----------|-----|--------|------------|
| SP-FF-CH-C1-20141008 | Sample | Tissue | GC/MS NNN | 11/16/14 | 11/18/14 16:38 | 141116L01 | | | | |
| SP-FF-CH-C1-20141008 | Matrix Spike | Tissue | GC/MS NNN | 11/16/14 | 11/18/14 17:50 | 141116L01 | | | | |
| SP-FF-CH-C1-20141008 | Matrix Spike Duplicate | Tissue | GC/MS NNN | 11/16/14 | 11/18/14 18:08 | 141116L01 | | | | |
| Parameter | Sample Conc. | Spike Added | MS Conc. | MS %Rec. | MSD Conc. | MSD %Rec. | %Rec. CL | RPD | RPD CL | Qualifiers |
| Alpha Chlordane | ND | 5.000 | 2.329 | 47 | 1.819 | 36 | 10-150 | 25 | 0-30 | |
| 4,4'-DDD | ND | 5.000 | 2.584 | 52 | 1.980 | 40 | 10-150 | 26 | 0-30 | |
| 4,4'-DDE | 6.663 | 5.000 | 9.261 | 52 | 6.385 | 0 | 10-150 | 37 | 0-30 | 3,4 |
| 4,4'-DDT | ND | 5.000 | 2.322 | 46 | 1.846 | 37 | 10-150 | 23 | 0-30 | |
| Dieldrin | ND | 5.000 | 2.265 | 45 | 1.781 | 36 | 10-150 | 24 | 0-30 | |
| Gamma Chlordane | ND | 5.000 | 2.240 | 45 | 1.803 | 36 | 10-150 | 22 | 0-30 | |


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RPD: Relative Percent Difference. CL: Control Limits



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Quality Control - Spike/Spike Duplicate

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 10/08/14
Work Order: 14-10-0602
Preparation: EPA 3541
Method: EPA 8270C SIM PCB Congeners

Project: GWMA - TMDL Compliance Monitoring

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| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | MS/MSD Batch Number |
|---------------------------|------------------------|--------|------------|---------------|----------------|---------------------|
| CP-FF-CH-C1-20141008 | Sample | Tissue | GC/MS NNN | 10/10/14 | 10/17/14 18:27 | 141010S26 |
| CP-FF-CH-C1-20141008 | Matrix Spike | Tissue | GC/MS NNN | 10/10/14 | 10/18/14 22:38 | 141010S26 |
| CP-FF-CH-C1-20141008 | Matrix Spike Duplicate | Tissue | GC/MS NNN | 10/10/14 | 10/18/14 23:01 | 141010S26 |

| Parameter | Sample Conc. | Spike Added | MS Conc. | MS %Rec. | MSD Conc. | MSD %Rec. | %Rec. CL | RPD | RPD CL | Qualifiers |
|-----------|--------------|-------------|----------|----------|-----------|-----------|----------|-----|--------|------------|
| PCB018 | ND | 50.00 | 27.24 | 54 | 19.08 | 38 | 10-150 | 35 | 0-30 | 4 |
| PCB028 | ND | 50.00 | 29.92 | 60 | 20.92 | 42 | 10-150 | 35 | 0-30 | 4 |
| PCB044 | ND | 50.00 | 28.54 | 57 | 20.23 | 40 | 10-150 | 34 | 0-30 | 4 |
| PCB052 | 0.2772 | 50.00 | 29.00 | 57 | 20.56 | 41 | 10-150 | 34 | 0-30 | 4 |
| PCB066 | 0.2843 | 50.00 | 29.33 | 58 | 20.80 | 41 | 10-150 | 34 | 0-30 | 4 |
| PCB077 | ND | 50.00 | 32.77 | 66 | 23.10 | 46 | 10-150 | 35 | 0-30 | 4 |
| PCB101 | 0.8167 | 50.00 | 29.57 | 58 | 21.14 | 41 | 10-150 | 33 | 0-30 | 4 |
| PCB105 | 0.2819 | 50.00 | 32.76 | 65 | 23.23 | 46 | 10-150 | 34 | 0-30 | 4 |
| PCB118 | 0.8862 | 50.00 | 33.32 | 65 | 23.71 | 46 | 10-150 | 34 | 0-30 | 4 |
| PCB126 | ND | 50.00 | 31.60 | 63 | 22.99 | 46 | 10-150 | 32 | 0-30 | 4 |
| PCB128 | 0.2140 | 50.00 | 29.72 | 59 | 21.16 | 42 | 10-150 | 34 | 0-30 | 4 |
| PCB170 | 0.2523 | 50.00 | 27.49 | 54 | 20.38 | 40 | 10-150 | 30 | 0-30 | |
| PCB180 | 0.5283 | 50.00 | 30.01 | 59 | 21.51 | 42 | 10-150 | 33 | 0-30 | 4 |
| PCB187 | 0.5236 | 50.00 | 30.46 | 60 | 21.91 | 43 | 10-150 | 33 | 0-30 | 4 |
| PCB206 | ND | 50.00 | 31.71 | 63 | 22.99 | 46 | 10-150 | 32 | 0-30 | 4 |

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RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - Spike/Spike Duplicate

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 10/08/14
Work Order: 14-10-0602
Preparation: EPA 3541
Method: EPA 8270C SIM PCB Congeners

Project: GWMA - TMDL Compliance Monitoring

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| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | MS/MSD Batch Number |
|---------------------------|------------------------|--------|------------|---------------|----------------|---------------------|
| OB-FF-WC-C3-20141008 | Sample | Tissue | GC/MS NNN | 10/11/14 | 10/18/14 19:31 | 141011S04 |
| OB-FF-WC-C3-20141008 | Matrix Spike | Tissue | GC/MS NNN | 10/11/14 | 11/06/14 14:34 | 141011S04 |
| OB-FF-WC-C3-20141008 | Matrix Spike Duplicate | Tissue | GC/MS NNN | 10/11/14 | 11/06/14 14:56 | 141011S04 |

| Parameter | Sample Conc. | Spike Added | MS Conc. | MS %Rec. | MSD Conc. | MSD %Rec. | %Rec. CL | RPD | RPD CL | Qualifiers |
|-----------|--------------|-------------|----------|----------|-----------|-----------|----------|-----|--------|------------|
| PCB018 | 0.9598 | 50.00 | 27.57 | 53 | 24.55 | 47 | 10-150 | 12 | 0-30 | |
| PCB028 | 2.227 | 50.00 | 29.38 | 54 | 25.87 | 47 | 10-150 | 13 | 0-30 | |
| PCB044 | 2.255 | 50.00 | 28.26 | 52 | 25.15 | 46 | 10-150 | 12 | 0-30 | |
| PCB052 | 3.508 | 50.00 | 28.85 | 51 | 25.78 | 45 | 10-150 | 11 | 0-30 | |
| PCB066 | 4.008 | 50.00 | 26.77 | 46 | 24.39 | 41 | 10-150 | 9 | 0-30 | |
| PCB077 | 1.195 | 50.00 | 30.34 | 58 | 26.89 | 51 | 10-150 | 12 | 0-30 | |
| PCB101 | 9.528 | 50.00 | 28.60 | 38 | 25.86 | 33 | 10-150 | 10 | 0-30 | |
| PCB105 | 3.114 | 50.00 | 31.82 | 57 | 28.75 | 51 | 10-150 | 10 | 0-30 | |
| PCB118 | 9.569 | 50.00 | 30.53 | 42 | 27.75 | 36 | 10-150 | 10 | 0-30 | |
| PCB126 | ND | 50.00 | 31.19 | 62 | 28.38 | 57 | 10-150 | 9 | 0-30 | |
| PCB128 | 2.113 | 50.00 | 28.36 | 53 | 26.01 | 48 | 10-150 | 9 | 0-30 | |
| PCB170 | 2.880 | 50.00 | 29.76 | 54 | 25.81 | 46 | 10-150 | 14 | 0-30 | |
| PCB180 | 6.448 | 50.00 | 29.82 | 47 | 26.33 | 40 | 10-150 | 12 | 0-30 | |
| PCB187 | 5.625 | 50.00 | 30.04 | 49 | 26.74 | 42 | 10-150 | 12 | 0-30 | |
| PCB206 | 0.7621 | 50.00 | 35.71 | 70 | 31.43 | 61 | 10-150 | 13 | 0-30 | |

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RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - Sample Duplicate

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 10/08/14
Work Order: 14-10-0602
Preparation: N/A
Method: ASTM D-2216 (M)

Project: GWMA - TMDL Compliance Monitoring

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| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | Duplicate Batch Number |
|---------------------------|------------------|--------|------------|----------------|----------------|------------------------|
| CP-FF-CH-C1-20141008 | Sample | Tissue | N/A | 10/13/14 00:00 | 10/13/14 16:40 | E1013MOID1 |
| CP-FF-CH-C1-20141008 | Sample Duplicate | Tissue | N/A | 10/13/14 00:00 | 10/13/14 16:40 | E1013MOID1 |

| <u>Parameter</u> | <u>Sample Conc.</u> | <u>DUP Conc.</u> | <u>RPD</u> | <u>RPD CL</u> | <u>Qualifiers</u> |
|------------------|---------------------|------------------|------------|---------------|-------------------|
| Moisture | 76.30 | 76.10 | 0 | 0-10 | |

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RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - Sample Duplicate

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 10/08/14
 Work Order: 14-10-0602
 Preparation: N/A
 Method: ASTM D-2216 (M)

Project: GWMA - TMDL Compliance Monitoring

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| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | Duplicate Batch Number |
|-----------------------------|-------------------------|---------------|------------|-----------------------|-----------------------|------------------------|
| OB-FF-CH-C3-20141008 | Sample | Tissue | N/A | 10/13/14 00:00 | 10/13/14 17:00 | E1013MOID2 |
| OB-FF-CH-C3-20141008 | Sample Duplicate | Tissue | N/A | 10/13/14 00:00 | 10/13/14 17:00 | E1013MOID2 |

| <u>Parameter</u> | <u>Sample Conc.</u> | <u>DUP Conc.</u> | <u>RPD</u> | <u>RPD CL</u> | <u>Qualifiers</u> |
|------------------|---------------------|------------------|------------|---------------|-------------------|
| Moisture | 78.80 | 78.20 | 1 | 0-10 | |

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RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - Sample Duplicate

| | | |
|--|----------------|-------------------------|
| ANCHOR QEA, LLC | Date Received: | 10/08/14 |
| 27201 Puerta Real, Suite 350 | Work Order: | 14-10-0602 |
| Mission Viejo, CA 92691-8306 | Preparation: | EPA 3541 |
| | Method: | MeCl2 Ext. (NOAA 1993a) |
| Project: GWMA - TMDL Compliance Monitoring | | Page 3 of 4 |

| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | Duplicate Batch Number |
|---------------------------|------------------|---------------------|------------------|----------------|----------------|------------------------|
| SP-FF-CH-C3-20141008 | Sample | Tissue | B03/B13 | 10/10/14 00:00 | 10/13/14 00:00 | 141010D26 |
| SP-FF-CH-C3-20141008 | Sample Duplicate | Tissue | B03/B13 | 10/10/14 00:00 | 10/13/14 00:00 | 141010D26 |
| <u>Parameter</u> | | <u>Sample Conc.</u> | <u>DUP Conc.</u> | <u>RPD</u> | <u>RPD CL</u> | <u>Qualifiers</u> |
| % Lipids | | 0.3500 | 0.3250 | 7 | 0-25 | |

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RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - Sample Duplicate

ANCHOR QEA, LLC
 27201 Puerta Real, Suite 350
 Mission Viejo, CA 92691-8306

Date Received: 10/08/14
 Work Order: 14-10-0602
 Preparation: EPA 3541
 Method: MeCl2 Ext. (NOAA 1993a)

Project: GWMA - TMDL Compliance Monitoring

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| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | Duplicate Batch Number |
|-----------------------------|-------------------------|---------------|----------------|-----------------------|-----------------------|------------------------|
| SP-FF-WC-C2-20141008 | Sample | Tissue | B03/B13 | 10/11/14 00:00 | 10/13/14 00:00 | 141011D04 |
| SP-FF-WC-C2-20141008 | Sample Duplicate | Tissue | B03/B13 | 10/11/14 00:00 | 10/13/14 00:00 | 141011D04 |

| <u>Parameter</u> | <u>Sample Conc.</u> | <u>DUP Conc.</u> | <u>RPD</u> | <u>RPD CL</u> | <u>Qualifiers</u> |
|------------------|---------------------|------------------|------------|---------------|-------------------|
| % Lipids | 2.380 | 2.230 | 7 | 0-25 | |

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RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - LCS/LCSD

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 10/08/14
Work Order: 14-10-0602
Preparation: EPA 3541
Method: EPA 8270C PEST-SIM

Project: GWMA - TMDL Compliance Monitoring

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| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | LCS/LCSD Batch Number | | | |
|---------------------------|-------------|-----------|------------|---------------|----------------|-----------------------|-----|--------|------------|
| 099-16-514-1 | LCS | Tissue | GC/MS NNN | 10/10/14 | 11/18/14 15:09 | 141010L26M | | | |
| 099-16-514-1 | LCSD | Tissue | GC/MS NNN | 10/10/14 | 11/18/14 15:26 | 141010L26M | | | |
| Parameter | Spike Added | LCS Conc. | LCS %Rec. | LCSD Conc. | LCSD %Rec. | %Rec. CL | RPD | RPD CL | Qualifiers |
| Alpha Chlordane | 5.000 | 2.719 | 54 | 3.020 | 60 | 10-150 | 10 | 0-30 | |
| 4,4'-DDD | 5.000 | 2.825 | 56 | 3.047 | 61 | 10-150 | 8 | 0-30 | |
| 4,4'-DDE | 5.000 | 3.076 | 62 | 3.599 | 72 | 10-150 | 16 | 0-30 | |
| 4,4'-DDT | 5.000 | 3.466 | 69 | 3.977 | 80 | 10-150 | 14 | 0-30 | |
| Dieldrin | 5.000 | 5.709 | 114 | 6.549 | 131 | 10-150 | 14 | 0-30 | |
| Gamma Chlordane | 5.000 | 2.826 | 57 | 3.046 | 61 | 10-150 | 7 | 0-30 | |

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RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - LCS/LCSD

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 10/08/14
Work Order: 14-10-0602
Preparation: EPA 3541
Method: EPA 8270C PEST-SIM

Project: GWMA - TMDL Compliance Monitoring

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| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | LCS/LCSD Batch Number | | | |
|---------------------------|-------------|-----------|------------|---------------|----------------|-----------------------|-----|--------|------------|
| 099-16-514-2 | LCS | Tissue | GC/MS NNN | 10/11/14 | 11/13/14 14:07 | 141011L04M | | | |
| 099-16-514-2 | LCSD | Tissue | GC/MS NNN | 10/11/14 | 11/13/14 14:25 | 141011L04M | | | |
| Parameter | Spike Added | LCS Conc. | LCS %Rec. | LCSD Conc. | LCSD %Rec. | %Rec. CL | RPD | RPD CL | Qualifiers |
| Alpha Chlordane | 5.000 | 2.470 | 49 | 2.570 | 51 | 10-150 | 4 | 0-30 | |
| 4,4'-DDD | 5.000 | 2.550 | 51 | 2.368 | 47 | 10-150 | 7 | 0-30 | |
| 4,4'-DDE | 5.000 | 2.671 | 53 | 2.470 | 49 | 10-150 | 8 | 0-30 | |
| 4,4'-DDT | 5.000 | 2.908 | 58 | 2.638 | 53 | 10-150 | 10 | 0-30 | |
| Dieldrin | 5.000 | 5.044 | 101 | 4.304 | 86 | 10-150 | 16 | 0-30 | |
| Gamma Chlordane | 5.000 | 2.703 | 54 | 2.449 | 49 | 10-150 | 10 | 0-30 | |

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RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - LCS/LCSD

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 10/08/14
Work Order: 14-10-0602
Preparation: EPA 3541
Method: EPA 8270C PEST-SIM

Project: GWMA - TMDL Compliance Monitoring

Page 3 of 5

| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | LCS/LCSD Batch Number | | | |
|---------------------------|-------------|-----------|------------|---------------|----------------|-----------------------|-----|--------|------------|
| 099-16-514-3 | LCS | Tissue | GC/MS NNN | 11/16/14 | 11/18/14 15:44 | 141116L01 | | | |
| 099-16-514-3 | LCSD | Tissue | GC/MS NNN | 11/16/14 | 11/18/14 16:02 | 141116L01 | | | |
| Parameter | Spike Added | LCS Conc. | LCS %Rec. | LCSD Conc. | LCSD %Rec. | %Rec. CL | RPD | RPD CL | Qualifiers |
| Alpha Chlordane | 5.000 | 2.830 | 57 | 2.525 | 51 | 10-150 | 11 | 0-30 | |
| 4,4'-DDD | 5.000 | 3.066 | 61 | 2.675 | 53 | 10-150 | 14 | 0-30 | |
| 4,4'-DDE | 5.000 | 3.567 | 71 | 3.108 | 62 | 10-150 | 14 | 0-30 | |
| 4,4'-DDT | 5.000 | 3.154 | 63 | 2.714 | 54 | 10-150 | 15 | 0-30 | |
| Dieldrin | 5.000 | 2.771 | 55 | 2.554 | 51 | 10-150 | 8 | 0-30 | |
| Gamma Chlordane | 5.000 | 2.910 | 58 | 2.653 | 53 | 10-150 | 9 | 0-30 | |

RPD: Relative Percent Difference. CL: Control Limits



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ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 10/08/14
Work Order: 14-10-0602
Preparation: EPA 3541
Method: EPA 8270C SIM PCB Congeners

Project: GWMA - TMDL Compliance Monitoring

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| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | LCS/LCSD Batch Number | | | | |
|---------------------------|-------------|-----------|------------|---------------|----------------|-----------------------|-------|-----|--------|------------|
| 099-16-504-1 | LCS | Tissue | GC/MS NNN | 10/10/14 | 10/18/14 21:04 | 141010L26 | | | | |
| 099-16-504-1 | LCSD | Tissue | GC/MS NNN | 10/10/14 | 10/18/14 21:28 | 141010L26 | | | | |
| Parameter | Spike Added | LCS Conc. | LCS %Rec. | LCSD Conc. | LCSD %Rec. | %Rec. CL | ME CL | RPD | RPD CL | Qualifiers |
| PCB018 | 50.00 | 27.64 | 55 | 27.75 | 55 | 10-150 | 0-173 | 0 | 0-30 | |
| PCB028 | 50.00 | 28.48 | 57 | 31.15 | 62 | 10-150 | 0-173 | 9 | 0-30 | |
| PCB044 | 50.00 | 26.28 | 53 | 28.50 | 57 | 10-150 | 0-173 | 8 | 0-30 | |
| PCB052 | 50.00 | 24.77 | 50 | 26.16 | 52 | 10-150 | 0-173 | 5 | 0-30 | |
| PCB066 | 50.00 | 26.72 | 53 | 26.56 | 53 | 10-150 | 0-173 | 1 | 0-30 | |
| PCB077 | 50.00 | 31.76 | 64 | 32.87 | 66 | 10-150 | 0-173 | 3 | 0-30 | |
| PCB101 | 50.00 | 28.17 | 56 | 28.64 | 57 | 10-150 | 0-173 | 2 | 0-30 | |
| PCB105 | 50.00 | 32.20 | 64 | 32.27 | 65 | 10-150 | 0-173 | 0 | 0-30 | |
| PCB118 | 50.00 | 32.18 | 64 | 32.90 | 66 | 10-150 | 0-173 | 2 | 0-30 | |
| PCB126 | 50.00 | 31.84 | 64 | 32.29 | 65 | 10-150 | 0-173 | 1 | 0-30 | |
| PCB128 | 50.00 | 28.83 | 58 | 29.51 | 59 | 10-150 | 0-173 | 2 | 0-30 | |
| PCB170 | 50.00 | 27.13 | 54 | 28.32 | 57 | 10-150 | 0-173 | 4 | 0-30 | |
| PCB180 | 50.00 | 29.08 | 58 | 29.54 | 59 | 10-150 | 0-173 | 2 | 0-30 | |
| PCB187 | 50.00 | 29.71 | 59 | 30.23 | 60 | 10-150 | 0-173 | 2 | 0-30 | |
| PCB206 | 50.00 | 31.72 | 63 | 32.89 | 66 | 10-150 | 0-173 | 4 | 0-30 | |

Total number of LCS compounds: 15

Total number of ME compounds: 0

Total number of ME compounds allowed: 1

LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - LCS/LCSD

ANCHOR QEA, LLC
27201 Puerta Real, Suite 350
Mission Viejo, CA 92691-8306

Date Received: 10/08/14
Work Order: 14-10-0602
Preparation: EPA 3541
Method: EPA 8270C SIM PCB Congeners

Project: GWMA - TMDL Compliance Monitoring

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| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | LCS/LCSD Batch Number | | | | |
|---------------------------|-------------|-----------|------------|---------------|----------------|-----------------------|-------|-----|--------|------------|
| 099-16-504-3 | LCS | Tissue | GC/MS NNN | 10/11/14 | 10/20/14 18:25 | 141011L04 | | | | |
| 099-16-504-3 | LCSD | Tissue | GC/MS NNN | 10/11/14 | 10/20/14 18:48 | 141011L04 | | | | |
| Parameter | Spike Added | LCS Conc. | LCS %Rec. | LCSD Conc. | LCSD %Rec. | %Rec. CL | ME CL | RPD | RPD CL | Qualifiers |
| PCB018 | 50.00 | 26.20 | 52 | 20.05 | 40 | 10-150 | 0-173 | 27 | 0-30 | |
| PCB028 | 50.00 | 28.79 | 58 | 21.56 | 43 | 10-150 | 0-173 | 29 | 0-30 | |
| PCB044 | 50.00 | 27.07 | 54 | 20.47 | 41 | 10-150 | 0-173 | 28 | 0-30 | |
| PCB052 | 50.00 | 25.84 | 52 | 20.30 | 41 | 10-150 | 0-173 | 24 | 0-30 | |
| PCB066 | 50.00 | 27.61 | 55 | 21.04 | 42 | 10-150 | 0-173 | 27 | 0-30 | |
| PCB077 | 50.00 | 31.16 | 62 | 23.23 | 46 | 10-150 | 0-173 | 29 | 0-30 | |
| PCB101 | 50.00 | 27.65 | 55 | 20.75 | 42 | 10-150 | 0-173 | 29 | 0-30 | |
| PCB105 | 50.00 | 30.92 | 62 | 23.45 | 47 | 10-150 | 0-173 | 27 | 0-30 | |
| PCB118 | 50.00 | 31.36 | 63 | 23.98 | 48 | 10-150 | 0-173 | 27 | 0-30 | |
| PCB126 | 50.00 | 31.03 | 62 | 23.32 | 47 | 10-150 | 0-173 | 28 | 0-30 | |
| PCB128 | 50.00 | 28.23 | 56 | 21.17 | 42 | 10-150 | 0-173 | 29 | 0-30 | |
| PCB170 | 50.00 | 25.58 | 51 | 20.36 | 41 | 10-150 | 0-173 | 23 | 0-30 | |
| PCB180 | 50.00 | 28.41 | 57 | 21.73 | 43 | 10-150 | 0-173 | 27 | 0-30 | |
| PCB187 | 50.00 | 28.88 | 58 | 21.64 | 43 | 10-150 | 0-173 | 29 | 0-30 | |
| PCB206 | 50.00 | 29.78 | 60 | 23.81 | 48 | 10-150 | 0-173 | 22 | 0-30 | |

Total number of LCS compounds: 15

Total number of ME compounds: 0

Total number of ME compounds allowed: 1

LCS ME CL validation result: Pass

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits

Glossary of Terms and Qualifiers

Work Order: 14-10-0602

Page 1 of 1

| <u>Qualifiers</u> | <u>Definition</u> |
|-------------------|--|
| * | See applicable analysis comment. |
| < | Less than the indicated value. |
| > | Greater than the indicated value. |
| 1 | Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification. |
| 2 | Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification. |
| 3 | Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control. |
| 4 | The MS/MSD RPD was out of control due to suspected matrix interference. |
| 5 | The PDS/PDSO or PES/PESO associated with this batch of samples was out of control due to suspected matrix interference. |
| 6 | Surrogate recovery below the acceptance limit. |
| 7 | Surrogate recovery above the acceptance limit. |
| B | Analyte was present in the associated method blank. |
| BU | Sample analyzed after holding time expired. |
| BV | Sample received after holding time expired. |
| E | Concentration exceeds the calibration range. |
| ET | Sample was extracted past end of recommended max. holding time. |
| HD | The chromatographic pattern was inconsistent with the profile of the reference fuel standard. |
| HDH | The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected). |
| HDL | The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected). |
| J | Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated. |
| JA | Analyte positively identified but quantitation is an estimate. |
| ME | LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean). |
| ND | Parameter not detected at the indicated reporting limit. |
| Q | Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater. |
| SG | The sample extract was subjected to Silica Gel treatment prior to analysis. |
| X | % Recovery and/or RPD out-of-range. |
| Z | Analyte presence was not confirmed by second column or GC/MS analysis. |

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of ≤ 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

Chain of Custody Record & Laboratory Analysis Request

Laboratory Number: _____

Date: 10-8-2014

Project Name: GWMA-TMDL Compliance Monitoring

Project Number: 141205-01.01

Project Manager: Andy Martin

Phone Number: (949) 334 9630

Shipment Method: _____



14-10-0602

| Line | Field Sample ID | Collection Date/Time | Matrix | No. of Containers | | | | Test Parameters | | | | Comments/Preservation |
|------|----------------------|----------------------|--------|-------------------|------------|---------------|---------------------------|-----------------|--|--|--|---|
| | | | | % Lipids | % Moisture | PCB Congeners | Organochlorine Pesticides | Archive | | | | |
| ✓1 | CP-FF-CH-C1-20141008 | <u>10/08/14</u> | Fish | X | X | X | X | | | | | FILLET AND THEN COMPOSITE SKIN-OFF FILLETS OF HALIBUT |
| ✓2 | CP-FF-CH-C2-20141008 | | Fish | X | X | X | X | | | | | FILLET AND THEN COMPOSITE SKIN-OFF FILLETS OF HALIBUT |
| 3 | CP-FF-CH-C3-20141008 | | Fish | X | X | X | X | | | | | FILLET AND THEN COMPOSITE SKIN-OFF FILLETS OF HALIBUT |
| 4 | CP-FF-WC-C1-20141008 | | Fish | X | X | X | X | | | | | FILLET AND THEN COMPOSITE SKIN-OFF FILLETS OF CROAKER |
| 5 | CP-FF-WC-C2-20141008 | | Fish | X | X | X | X | | | | | FILLET AND THEN COMPOSITE SKIN-OFF FILLETS OF CROAKER |
| 6 | CP-FF-WC-C3-20141008 | | Fish | X | X | X | X | | | | | FILLET AND THEN COMPOSITE SKIN-OFF FILLETS OF CROAKER |
| 7 | CP-WO-WS-C1-20141008 | | Fish | X | X | X | X | | | | | COMPOSITE WHOLE PERCH (DO NOT FILLET) |
| 8 | CP-WO-WS-C2-20141008 | | Fish | X | X | X | X | | | | | COMPOSITE WHOLE PERCH (DO NOT FILLET) |
| 9 | CP-WO-WS-C3-20141008 | | Fish | X | X | X | X | | | | | COMPOSITE WHOLE PERCH (DO NOT FILLET) |
| ✓10 | SP-FF-CH-C1-20141008 | | Fish | X | X | X | X | | | | | FILLET AND THEN COMPOSITE SKIN-OFF FILLETS OF HALIBUT |
| 11 | SP-FF-CH-C2-20141008 | | Fish | X | X | X | X | | | | | FILLET AND THEN COMPOSITE SKIN-OFF FILLETS OF HALIBUT |
| 12 | SP-FF-CH-C3-20141008 | | Fish | X | X | X | X | | | | | FILLET AND THEN COMPOSITE SKIN-OFF FILLETS OF HALIBUT |

- For halibut and croaker, skin-off fillets from fish within a labeled bag should be composited. Do not include ribs and stomach tissue in the fillet.
- For white perch and pacific pompano, whole fish within a labeled bag should be composited (this differs from the SAP) due to the lack of mass necessary for analysis of fillet composites.
- When creating a composite, composite ALL individuals (or their fillets-see above for details) included in a labeled composite sample bag and ensure that each sample has been homogenized to a consistent color and texture prior to subsampling for analyses. After subsampling, freeze (to at least -20°C) and archive the remaining homogenized tissue from each composite. Please contact Anchor QEA prior to disposal of archived, frozen tissue homogenates or frozen tissue archives.

| | | | |
|-------------------------------------|---------------------------------|------------------------------------|---------------------------------|
| Relinquished By: <u>Bonnie Cibr</u> | Anchor QEA | Received By: <u>DMW</u> | Company: _____ |
| Signature/Printed Name | Date/Time: <u>10/08/14 1300</u> | Signature/Printed Name: <u>DMW</u> | Date/Time: <u>10/8/14 13:00</u> |
| Relinquished By: _____ | Date/Time: _____ | Received By: _____ | Company: _____ |
| Signature/Printed Name | Date/Time: _____ | Signature/Printed Name | Date/Time: _____ |

Distribution: A copy will be made for the laboratory and client. The Project file will retain the original.

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Chain of Custody Record & Laboratory Analysis Request

Laboratory Number: _____

Date: 10-8-2014

Project Name: GWMA-TMDL Compliance Monitoring

Project Number: 141205-01.01

Project Manager: Andy Martin

Phone Number: (949) 334 9630

Shipment Method: _____



0602

| Line | Field Sample ID | Collection Date/Time | Matrix | Test Parameters | | | | | Comments/Preservation |
|------|----------------------|----------------------|--------|-------------------|----------|------------|---------------|---------------------------|---|
| | | | | No. of Containers | % Lipids | % Moisture | PCB Congeners | Organochlorine Pesticides | |
| 13 | SP-WO-PP-C1-20141008 | 10/08/14 | Fish | 1 | X | X | X | X | COMPOSITE WHOLE POMPANO (DO NOT FILLET) |
| 14 | SP-WO-PP-C2-20141008 | | Fish | 1 | X | X | X | X | COMPOSITE WHOLE POMPANO (DO NOT FILLET) |
| 15 | SP-WO-PP-C3-20141008 | | Fish | 1 | X | X | X | X | COMPOSITE WHOLE POMPANO (DO NOT FILLET) |
| 16 | SP-FF-WC-C1-20141008 | | Fish | 1 | X | X | X | X | FILLET AND THEN COMPOSITE SKIN-OFF FILLETS OF CROAKER |
| 17 | SP-FF-WC-C2-20141008 | | Fish | 1 | X | X | X | X | FILLET AND THEN COMPOSITE SKIN-OFF FILLETS OF CROAKER |
| 18 | SP-FF-WC-C3-20141008 | | Fish | 1 | X | X | X | X | FILLET AND THEN COMPOSITE SKIN-OFF FILLETS OF CROAKER |
| 19 | OB-FF-CH-C1-20141008 | | Fish | 1 | X | X | X | X | FILLET AND THEN COMPOSITE SKIN-OFF FILLETS OF HALIBUT |
| 20 | OB-FF-CH-C2-20141008 | | Fish | 1 | X | X | X | X | FILLET AND THEN COMPOSITE SKIN-OFF FILLETS OF HALIBUT |
| 21 | OB-FF-CH-C3-20141008 | | Fish | 1 | X | X | X | X | FILLET AND THEN COMPOSITE SKIN-OFF FILLETS OF HALIBUT |
| 22 | OB-FF-WC-C1-20141008 | | Fish | 1 | X | X | X | X | FILLET AND THEN COMPOSITE SKIN-OFF FILLETS OF CROAKER |
| 23 | OB-FF-WC-C2-20141008 | | Fish | 1 | X | X | X | X | FILLET AND THEN COMPOSITE SKIN-OFF FILLETS OF CROAKER |
| 24 | OB-FF-WC-C3-20141008 | | Fish | 1 | X | X | X | X | FILLET AND THEN COMPOSITE SKIN-OFF FILLETS OF CROAKER |

- For halibut and croaker, skin-off fillets from fish within a labeled bag should be composited. Do not include ribs and stomach tissue in the fillet.
- For white perch and pacific pompano, whole fish within a labeled bag should be composited (this differs from the SAP) due to the lack of mass necessary for analysis of fillet composites.
- When creating a composite, composite ALL individuals (or their fillets-see above for details) included in a labeled composite sample bag and ensure that each sample has been homogenized to a consistent color and texture prior to subsampling for analyses. After subsampling, freeze (to at least -20°C) and archive the remaining homogenized tissue from each composite. Please contact Anchor QEA prior to disposal of archived, frozen tissue homogenates or frozen tissue archives.

Relinquished By: Bonnie Elbr Signature/Printed Name
 Date/Time: 10/08/14 1300

Received By: Parrinje Signature/Printed Name
 Date/Time: 10/8/14 13:00

Company: Anchor QEA

Relinquished By: _____ Signature/Printed Name
 Date/Time: _____

Received By: _____ Signature/Printed Name
 Date/Time: _____

Company: _____

Distribution: A copy will be made for the laboratory and client. The Project file will retain the original.

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Chain of Custody Record & Laboratory Analysis Request

Laboratory Number: _____

Date: 10-8-2014

Project Name: GWMA-TMDL Compliance Monitoring

Project Number: 141205-01.01

Project Manager: Andy Martin

Phone Number: (949) 334 9630

Shipment Method: _____



0602

| Line | Field Sample ID | Collection Date/Time | Matrix | Test Parameters | | | | | | Comments/Preservation |
|------|----------------------|----------------------|--------|-----------------|------------|---------------|---------------------------|---------|-------------------|---------------------------------------|
| | | | | % Lipids | % Moisture | PCB Congeners | Organochlorine Pesticides | Archive | No. of Containers | |
| 1 | OB-WO-WS-C1-20141008 | 10/08/14 | Fish | X | X | X | X | | | COMPOSITE WHOLE PERCH (DO NOT FILLET) |
| 2 | OB-WO-WS-C2-20141008 | ↓ | Fish | X | X | X | X | | | COMPOSITE WHOLE PERCH (DO NOT FILLET) |
| 3 | OB-WO-WS-C3-20141008 | ↙ | Fish | X | X | X | X | | | COMPOSITE WHOLE PERCH (DO NOT FILLET) |
| 4 | | | | | | | | | | |
| 5 | | | | | | | | | | |
| 6 | | | | | | | | | | |
| 7 | | | | | | | | | | |
| 8 | | | | | | | | | | |
| 9 | | | | | | | | | | |
| 10 | | | | | | | | | | |
| 11 | | | | | | | | | | |
| 12 | | | | | | | | | | |

- For halibut and croaker, skin-off fillets from fish within a labeled bag should be composited. Do not include ribs and stomach tissue in the fillet.
- For white perch and pacific pompano, whole fish within a labeled bag should be composited (this differs from the SAP) due to the lack of mass necessary for analysis of fillet composites.
- When creating a composite, composite ALL individuals (or their fillets-see above for details) included in a labeled composite sample bag and ensure that each sample has been homogenized to a consistent color and texture prior to subsampling for analyses. After subsampling, freeze (to at least -20°C) and archive the remaining homogenized tissue from each composite. Please contact Anchor QEA prior to disposal of archived, frozen tissue homogenates or frozen tissue archives.

Relinquished By: Bonnie Ahr Signature/Printed Name

Date/Time: 10/08/14 1300

Received By: B. V. N. M. J. L. Signature/Printed Name

Date/Time: 10/8/14 13:00

Relinquished By: _____ Signature/Printed Name

Date/Time: _____

Received By: _____ Signature/Printed Name

Date/Time: _____

Calscience

WORK ORDER #: 14-10-0602

SAMPLE RECEIPT FORM

Cooler 1 of 2

CLIENT: Anchor QEA

DATE: 10/08/14

TEMPERATURE: Thermometer ID: SC2 (Criteria: 0.0 °C – 6.0 °C, not frozen except sediment/tissue)

Temperature 2.7 °C - 0.2 °C (CF) = 2.5 °C Blank Sample

Sample(s) outside temperature criteria (PM/APM contacted by: _____)

Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: Air Filter

Checked by: 657

CUSTODY SEALS INTACT:

Cooler _____ No (Not Intact) Not Present N/A

Sample _____ No (Not Intact) Not Present

Checked by: 657

Checked by: 802

| SAMPLE CONDITION: | Yes | No | N/A |
|--|-------------------------------------|--------------------------|-------------------------------------|
| Chain-Of-Custody (COC) document(s) received with samples..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| COC document(s) received complete..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> Collection date/time, matrix, and/or # of containers logged in based on sample labels. | | | |
| <input type="checkbox"/> No analysis requested. <input type="checkbox"/> Not relinquished. <input type="checkbox"/> No date/time relinquished. | | | |
| Sampler's name indicated on COC..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Sample container label(s) consistent with COC..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Sample container(s) intact and good condition..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Proper containers and sufficient volume for analyses requested..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Analyses received within holding time..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Aqueous samples received within 15-minute holding time | | | |
| <input type="checkbox"/> pH <input type="checkbox"/> Residual Chlorine <input type="checkbox"/> Dissolved Sulfides <input type="checkbox"/> Dissolved Oxygen..... | | | |
| Proper preservation noted on COC or sample container..... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> Unpreserved vials received for Volatiles analysis | | | |
| Volatile analysis container(s) free of headspace..... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Tedlar bag(s) free of condensation..... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| CONTAINER TYPE: | | | |
| Solid: <input checked="" type="checkbox"/> 4ozCGJ <input type="checkbox"/> 8ozCGJ <input type="checkbox"/> 16ozCGJ <input type="checkbox"/> Sleeve (____) <input type="checkbox"/> EnCores® <input type="checkbox"/> TerraCores® <input checked="" type="checkbox"/> <u>FE</u> | | | |
| Aqueous: <input type="checkbox"/> VOA <input type="checkbox"/> VOA _h <input type="checkbox"/> VOA _{na2} <input type="checkbox"/> 125AGB <input type="checkbox"/> 125AGB _h <input type="checkbox"/> 125AGB _p <input type="checkbox"/> 1AGB <input type="checkbox"/> 1AGB _{na2} <input type="checkbox"/> 1AGB _s | | | |
| <input type="checkbox"/> 500AGB <input type="checkbox"/> 500AGJ <input type="checkbox"/> 500AGJ _s <input type="checkbox"/> 250AGB <input type="checkbox"/> 250CGB <input type="checkbox"/> 250CGB _s <input type="checkbox"/> 1PB <input type="checkbox"/> 1PB _{na} <input type="checkbox"/> 500PB | | | |
| <input type="checkbox"/> 250PB <input type="checkbox"/> 250PB _n <input type="checkbox"/> 125PB <input type="checkbox"/> 125PB _{z_{na}} <input type="checkbox"/> 100PJ <input type="checkbox"/> 100PJ _{na2} <input type="checkbox"/> _____ <input type="checkbox"/> _____ <input type="checkbox"/> _____ | | | |
| Air: <input type="checkbox"/> Tedlar® <input type="checkbox"/> Canister Other: <input type="checkbox"/> _____ Trip Blank Lot#: _____ Labeled/Checked by: <u>802</u> | | | |
| Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope Reviewed by: <u>739</u> | | | |
| Preservative: h: HCL n: HNO ₃ na ₂ :Na ₂ S ₂ O ₃ na: NaOH p: H ₃ PO ₄ s: H ₂ SO ₄ u: Ultra-pure z _{na} : ZnAc ₂ +NaOH f: Filtered Scanned by: <u>739</u> | | | |

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Calscience

WORK ORDER #: **14-10-0602**

SAMPLE RECEIPT FORM

Cooler 2 of 2

CLIENT: Anchor QEA

DATE: 10/08/14

TEMPERATURE: Thermometer ID: SC2 (Criteria: 0.0 °C – 6.0 °C, not frozen except sediment/tissue)

Temperature 2.8 °C - 0.2 °C (CF) = 2.6 °C Blank Sample

- Sample(s) outside temperature criteria (PM/APM contacted by: _____)
- Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: Air Filter

Checked by: 657

CUSTODY SEALS INTACT:

- Cooler _____ No (Not Intact) Not Present N/A
- Sample _____ No (Not Intact) Not Present

Checked by: 657

Checked by: 862

SAMPLE CONDITION:

| | Yes | No | N/A |
|---|-------------------------------------|--------------------------|-------------------------------------|
| Chain-Of-Custody (COC) document(s) received with samples..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| COC document(s) received complete..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> Collection date/time, matrix, and/or # of containers logged in based on sample labels. <input type="checkbox"/> No analysis requested. <input type="checkbox"/> Not relinquished. <input type="checkbox"/> No date/time relinquished. | | | |
| Sampler's name indicated on COC..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Sample container label(s) consistent with COC..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Sample container(s) intact and good condition..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Proper containers and sufficient volume for analyses requested..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Analyses received within holding time..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Aqueous samples received within 15-minute holding time | | | |
| <input type="checkbox"/> pH <input type="checkbox"/> Residual Chlorine <input type="checkbox"/> Dissolved Sulfides <input type="checkbox"/> Dissolved Oxygen..... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Proper preservation noted on COC or sample container..... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> Unpreserved vials received for Volatiles analysis | | | |
| Volatile analysis container(s) free of headspace..... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Tedlar bag(s) free of condensation..... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

CONTAINER TYPE:

Solid: 4ozCGJ 8ozCGJ 16ozCGJ Sleeve (____) EnCores® TerraCores® Z

Aqueous: VOA VOAh VOAna₂ 125AGB 125AGBh 125AGBp 1AGB 1AGBna₂ 1AGBs

500AGB 500AGJ 500AGJs 250AGB 250CGB 250CGBs 1PB 1PBna 500PB

250PB 250PBn 125PB 125PBz_{na} 100PJ 100PJna₂ _____ _____ _____

Air: Tedlar® Canister **Other:** _____ **Trip Blank Lot#:** _____ **Labeled/Checked by:** 862

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope **Reviewed by:** _____

Preservative: h: HCL n: HNO₃ na₂: Na₂S₂O₃ na: NaOH p: H₃PO₄ s: H₂SO₄ u: Ultra-pure z_{na}: ZnAc₂+NaOH f: Filtered **Scanned by:** _____

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APPENDIX C
BENTHIC COMMUNITY DATA
SUMMARIES

APPENDIX H

BENTHIC COMMUNITY DATA SUMMARIES (DANCING COYOTE)

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| Phylum | Class | Order | Family | StationID | SampleID | Replicate | SampleDate | SampleTime | Species | Qualifier | Abundance | Exclude | LabCode | SieveSize | SieveSizeUnits | Voucher | PersonalVoucher | AnalysisType | Taxonomist | Comments |
|----------|------------|---------------|------------------|-----------|----------|-----------|------------|------------|--|-----------|-----------|---------|---------|-----------|----------------|---------|-----------------|--------------|------------|-------------------------------|
| Annelida | Polychaeta | Canalipalpata | Ampharetidae | 8302 | | 1 | 7/11/2013 | | <i>Amphicteis scaphobranchiata</i> | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Aciculata | Pilargidae | 8302 | | 1 | 7/11/2013 | | <i>Ancistrosyllis hamata</i> | | 1 | | DC | 1.0 | mm | | 1 | initial | Lovell, L. | VC set 3 |
| Annelida | Polychaeta | Canalipalpata | Cirratulidae | 8302 | | 1 | 7/11/2013 | | <i>Aphelochaeta glandaria</i> Cmpkx | | 3 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpata | Cirratulidae | 8302 | | 1 | 7/11/2013 | | <i>Aphelochaeta monilata</i> | | 9 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Unassigned | Paraonidae | 8302 | | 1 | 7/11/2013 | | <i>Aricidea (Acirca) horikoshii</i> | | 1 | | DC | 1.0 | mm | | 1 | initial | Lovell, L. | |
| Annelida | Polychaeta | Aciculata | Nephtyidae | 8302 | | 1 | 7/11/2013 | | <i>Bipalponephyts cornuta</i> | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpata | Cirratulidae | 8302 | | 1 | 7/11/2013 | | <i>Cirratulidae</i> | | | N | DC | 1.0 | mm | | | initial | Lovell, L. | juvs |
| Annelida | Polychaeta | Canalipalpata | Cossuridae | 8302 | | 1 | 7/11/2013 | | <i>Cossura candida</i> | | 1 | | DC | 1.0 | mm | | 1 | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpata | Cossuridae | 8302 | | 1 | 7/11/2013 | | <i>Cossura sp A</i> | | 11 | | DC | 1.0 | mm | | 3 | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpata | Sabellidae | 8302 | | 1 | 7/11/2013 | | <i>Euchone limicola</i> | | 6 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Unassigned | Maldanidae | 8302 | | 1 | 7/11/2013 | | <i>Euclymenineta sp A</i> | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Aciculata | Glyceridae | 8302 | | 1 | 7/11/2013 | | <i>Glycera americana</i> | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Aciculata | Goniadidae | 8302 | | 1 | 7/11/2013 | | <i>Glycinde armigera</i> | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpata | Spionidae | 8302 | | 1 | 7/11/2013 | | <i>Laonice cirrata</i> | | 4 | | DC | 1.0 | mm | | 3 | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpata | Spionidae | 8302 | | 1 | 7/11/2013 | | <i>Laonice sp</i> | | 1 | N | DC | 1.0 | mm | | | initial | Lovell, L. | juv, IR pouches 4/5 |
| Annelida | Polychaeta | Unassigned | Orbinidae | 8302 | | 1 | 7/11/2013 | | <i>Leitoscoloplos sp A</i> | | 3 | | DC | 1.0 | mm | | 3 | initial | Lovell, L. | branchiae from set 11,11,12 |
| Annelida | Polychaeta | Aciculata | Polynoidae | 8302 | | 1 | 7/11/2013 | | <i>Malmgreniella macginitiei</i> | | 7 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Aciculata | Polynoidae | 8302 | | 1 | 7/11/2013 | | <i>Malmgreniella sanpedroensis</i> | | 1 | | DC | 1.0 | mm | | 1 | initial | Lovell, L. | |
| Annelida | Polychaeta | Unassigned | Capitellidae | 8302 | | 1 | 7/11/2013 | | <i>Mediomastus sp</i> | | 9 | N | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpata | Cirratulidae | 8302 | | 1 | 7/11/2013 | | <i>Monticollina cryptica</i> | | 7 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Aciculata | Nereididae | 8302 | | 1 | 7/11/2013 | | <i>Nereis sp A</i> | | 6 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Aciculata | Lumbrineridae | 8302 | | 1 | 7/11/2013 | | <i>Ninoe tridentata</i> | | 3 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Unassigned | Capitellidae | 8302 | | 1 | 7/11/2013 | | <i>Notomastus hemipodus</i> | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpata | Ampharetidae | 8302 | | 1 | 7/11/2013 | | <i>Paramage scutata</i> | | 4 | | DC | 1.0 | mm | | 2 | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpata | Spionidae | 8302 | | 1 | 7/11/2013 | | <i>Parapionospio alata</i> | | 3 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpata | Chaetopteridae | 8302 | | 1 | 7/11/2013 | | <i>Phyllochaetopterus prolifica</i> | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | juv, w/eyes, w/o perist flaps |
| Annelida | Polychaeta | Canalipalpata | Terebellidae | 8302 | | 1 | 7/11/2013 | | <i>Pista brevivibranchiata</i> | | 1 | | DC | 1.0 | mm | | 1 | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpata | Terebellidae | 8302 | | 1 | 7/11/2013 | | <i>Pista wui</i> | | 4 | | DC | 1.0 | mm | | 3 | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpata | Poecilochaetidae | 8302 | | 1 | 7/11/2013 | | <i>Poecilochaetus martini</i> | | 1 | | DC | 1.00 | mm | | 1 | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpata | Poecilochaetidae | 8302 | | 1 | 7/11/2013 | | <i>Poecilochaetus sp</i> | | 1 | N | DC | 1.00 | mm | | | initial | Lovell, L. | anterior frag, 16 set |
| Annelida | Polychaeta | Canalipalpata | Spionidae | 8302 | | 1 | 7/11/2013 | | <i>Prionospio (Minuspio) multibranchiata</i> | | 4 | | DC | 1.0 | mm | | 4 | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpata | Spionidae | 8302 | | 1 | 7/11/2013 | | <i>Prionospio (Prionospio) jubata</i> | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Aciculata | Lumbrineridae | 8302 | | 1 | 7/11/2013 | | <i>Scoletoma sp</i> | | 3 | N | DC | 1.0 | mm | | | initial | Lovell, L. | ant frags, hooks from set 5-6 |
| Annelida | Polychaeta | Aciculata | Lumbrineridae | 8302 | | 1 | 7/11/2013 | | <i>Scoletoma sp B</i> | | 2 | | DC | 1.0 | mm | | 2 | initial | Lovell, L. | |
| Annelida | Polychaeta | Aciculata | Lumbrineridae | 8302 | | 1 | 7/11/2013 | | <i>Scoletoma tetraura</i> Cmpkx | | 5 | | DC | 1.0 | mm | | | initial | Lovell, L. | w"eye" spots, hooks set 1 |
| Annelida | Polychaeta | Aciculata | Pilargidae | 8302 | | 1 | 7/11/2013 | | <i>Sigambra setosa</i> | | 3 | | DC | 1.0 | mm | | 3 | initial | Lovell, L. | med ant long, w/oto hooks |
| Annelida | Polychaeta | Canalipalpata | Spionidae | 8302 | | 1 | 7/11/2013 | | <i>Spiohanes duplex</i> | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpata | Terebellidae | 8302 | | 1 | 7/11/2013 | | <i>Terebellides californica</i> | | 2 | | DC | 1.0 | mm | | 1 | initial | Lovell, L. | |

| Phylum | Class | Order | Family | StationID | SampleID | Replicate | SampleDate | SampleTime | Species | Qualifier | Abundance | Exclude | LabCode | SieveSize | SieveSizeUnits | Voucher | PersonalVoucher | AnalysisType | Taxonomist | Comments |
|----------|------------|---------------|------------------|-----------|----------|-----------|------------|------------|---------------------------------------|-----------|-----------|---------|---------|-----------|----------------|---------|-----------------|--------------|------------|---------------------------------|
| Annelida | Polychaeta | Canalipalpata | Ampharetidae | 8304 | | 1 | 7/11/2013 | | Amphicteis scaphobranchiata | | 4 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpata | Cirratulidae | 8304 | | 1 | 7/11/2013 | | Aphelochaeta monilaris | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Unassigned | Paraonidae | 8304 | | 1 | 7/11/2013 | | Aricidea (Acmiria) horikoshii | | 2 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Aciculata | Nephtyidae | 8304 | | 1 | 7/11/2013 | | Bipalponephys cornuta | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpata | Cirratulidae | 8304 | | 1 | 7/11/2013 | | Cirratulidae | | 1 | Y | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Unassigned | Cossuridae | 8304 | | 1 | 7/11/2013 | | Cossura sp A | | 9 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Aciculata | Onuphidae | 8304 | | 1 | 7/11/2013 | | Diopatra tridentata | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Aciculata | Oeonidae | 8304 | | 1 | 7/11/2013 | | Dilonereis sp | | 2 | N | DC | 1.0 | mm | | | initial | Lovell, L. | mixed characters, indeterminate |
| Annelida | Polychaeta | Unassigned | Maldanidae | 8304 | | 1 | 7/11/2013 | | Euclymeninae sp A | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Aciculata | Glyceridae | 8304 | | 1 | 7/11/2013 | | Glycera americana | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpata | Spionidae | 8304 | | 1 | 7/11/2013 | | Laonice cirrata | | 20 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Aciculata | Polynoidae | 8304 | | 1 | 7/11/2013 | | Malmgreniella macginitiei | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | Juv |
| Annelida | Polychaeta | Aciculata | Polynoidae | 8304 | | 1 | 7/11/2013 | | Malmgreniella sp | | 1 | Y | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Unassigned | Capitellidae | 8304 | | 1 | 7/11/2013 | | Mediomastus spp | | 15 | N | DC | 1.0 | mm | | | initial | Lovell, L. | juv |
| Annelida | Polychaeta | Unassigned | Maldanidae | 8304 | | 1 | 7/11/2013 | | Metasychis disparidentatus | | 2 | | DC | 1.0 | mm | | 1 | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpata | Cirratulidae | 8304 | | 1 | 7/11/2013 | | Monticellina cryptica | | 2 | | DC | 1.0 | mm | | | initial | Lovell, L. | ant frag |
| Annelida | Polychaeta | Canalipalpata | Cirratulidae | 8304 | | 1 | 7/11/2013 | | Monticellina siblina | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Aciculata | Nephtyidae | 8304 | | 1 | 7/11/2013 | | Nephtys ferruginea | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Aciculata | Nereididae | 8304 | | 1 | 7/11/2013 | | Nereis sp A | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Unassigned | Capitellidae | 8304 | | 1 | 7/11/2013 | | Notomastus hemipodus | | 6 | | DC | 1.0 | mm | | 6 | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpata | Ampharetidae | 8304 | | 1 | 7/11/2013 | | Paramage sculata | | 2 | | DC | 1.0 | mm | | | initial | Lovell, L. | 1 juv |
| Annelida | Polychaeta | Canalipalpata | Spionidae | 8304 | | 1 | 7/11/2013 | | Paraprionospio alata | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpata | Pectinariidae | 8304 | | 1 | 7/11/2013 | | Pectinaria californiensis | | 2 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Unassigned | Maldanidae | 8304 | | 1 | 7/11/2013 | | Petaloclymene pacifica | | 2 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Aciculata | Phyllodoceidae | 8304 | | 1 | 7/11/2013 | | Phyllodoce sp | | 1 | N | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpata | Terebellidae | 8304 | | 1 | 7/11/2013 | | Pista brevirbranchiata | | 7 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpata | Terebellidae | 8304 | | 1 | 7/11/2013 | | Pista wui | | 5 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Aciculata | Hesionidae | 8304 | | 1 | 7/11/2013 | | Podarkeopsis sp A | | 4 | | DC | 1.0 | mm | | 2 | initial | Lovell, L. | |
| Annelida | Polychaeta | Unassigned | Maldanidae | 8304 | | 1 | 7/11/2013 | | Praxillella pacifica | | 2 | | DC | 1.0 | mm | | 1 | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpata | Spionidae | 8304 | | 1 | 7/11/2013 | | Prionospio (Minuspio) multibranchiata | | 2 | | DC | 1.0 | mm | | | initial | Lovell, L. | ant frags |
| Annelida | Polychaeta | Aciculata | Lumbrineridae | 8304 | | 1 | 7/11/2013 | | Scoletoma sp | | 4 | Y | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Aciculata | Lumbrineridae | 8304 | | 1 | 7/11/2013 | | Scoletoma sp B | | 3 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Aciculata | Pilargidae | 8304 | | 1 | 7/11/2013 | | Sigambra setosa | | 3 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Aciculata | Syllidae | 8304 | | 1 | 7/11/2013 | | Sphaerosyllis californiensis | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpata | Spionidae | 8304 | | 1 | 7/11/2013 | | Spiophanes berkeleyorum | | 3 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpata | Spionidae | 8304 | | 1 | 7/11/2013 | | Spiophanes duplex | | 4 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpata | Terebellidae | 8304 | | 1 | 7/11/2013 | | Streblosoma sp | | 1 | N | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpata | Trichobranchidae | 8304 | | 1 | 7/11/2013 | | Terebellides californica | | 3 | | DC | 1.0 | mm | | | initial | Lovell, L. | |

| Phylum | Class | Order | Family | StationID | SampleID | Replicate | SampleDate | SampleTime | Species | Qualifier | Abundance | Exclude | LabCode | SieveSize | SieveSizeUnits | Voucher | PersonalVoucher | AnalysisType | Taxonomist | Comments |
|----------|-------------|--------------|---------------|-----------|----------|-----------|------------|------------|--------------------------------|-----------|-----------|---------|---------|-----------|----------------|---------|-----------------|--------------|------------|----------|
| Annelida | Polychaeta | Canalipalpat | Spionidae | 8306 | | 1 | 7/11/2013 | | Apopritonospio pygmaea | | 2 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Unassigned | Cossuridae | 8306 | | 1 | 7/11/2013 | | Cossura sp A | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpat | Sabellidae | 8306 | | 1 | 7/11/2013 | | Euchone limnicola | | 14 | | DC | 1.0 | mm | | 5 | initial | Lovell, L. | |
| Annelida | Polychaeta | Unassigned | Maldanidae | 8306 | | 1 | 7/11/2013 | | Euclymeninae sp A | | 37 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Unassigned | Capitellidae | 8306 | | 1 | 7/11/2013 | | Mediomastus acutus | | 1 | | DC | 1.0 | mm | | 1 | initial | Lovell, L. | |
| Annelida | Polychaeta | Unassigned | Capitellidae | 8306 | | 1 | 7/11/2013 | | Mediomastus spp | | 34 | Y | DC | 1.0 | mm | | 7 | initial | Lovell, L. | |
| Annelida | Polychaeta | Unassigned | Capitellidae | 8306 | | 1 | 7/11/2013 | | Notomastus hemipodus | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Unassigned | Capitellidae | 8306 | | 1 | 7/11/2013 | | Notomastus tenuis | | 12 | | DC | 1.0 | mm | | 5 | initial | Lovell, L. | |
| Annelida | Oligochaeta | | | 8306 | | 1 | 7/11/2013 | | Oligochaeta | | 31 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpat | Pectinariidae | 8306 | | 1 | 7/11/2013 | | Pectinaria californiensis | | 2 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Aciculata | Nereididae | 8306 | | 1 | 7/11/2013 | | Platynereis bicanaliculata | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpat | Spionidae | 8306 | | 1 | 7/11/2013 | | Phonospio (Minuspio) | | | | | | | | | | | |
| Annelida | Polychaeta | Canalipalpat | Spionidae | 8306 | | 1 | 7/11/2013 | | multibranchiata | | 19 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpat | Spionidae | 8306 | | 1 | 7/11/2013 | | Pseudopolydora paucibranchiata | | 88 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpat | Spionidae | 8306 | | 1 | 7/11/2013 | | Spiophanes berkeleyorum | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpat | Spionidae | 8306 | | 1 | 7/11/2013 | | Spiophanes duplex | | 21 | | DC | 1.0 | mm | | | initial | Lovell, L. | |

POLA/POLB Bight '13
Benthic Infauna

DRAFT DATA

| Phylum | Class | Order | Family | StationID | SampleID | Replicate | SampleDate | SampleTime | Species | Qualifier | Abundance | Exclude | LabCode | SieveSize | SieveSizeUnits | Voucher | PersonalVoucher | AnalysisType | Taxonomist | Comments |
|----------|------------|---------------|------------------|-----------|----------|-----------|------------|------------|--------------------------------------|-----------|-----------|---------|---------|-----------|----------------|---------|-----------------|--------------|------------|---------------------------------------|
| Annelida | Polychaeta | Canalipalpata | Ampharetidae | 8308 | | 1 | 7/11/213 | | Amphiteis scaphobranchiata | | 2 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpata | Cirratulidae | 8308 | | 1 | 7/11/213 | | Aphelocheata monilaris | | 3 | | DC | 1.0 | mm | | | initial | Lovell, L. | placed in misc poly by mistake |
| Annelida | Polychaeta | Unassigned | Paronidae | 8308 | | 1 | 7/11/213 | | Aricidea (Acmira) horikoshii | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Aciculata | Nephtyidae | 8308 | | 1 | 7/11/213 | | Bipalponephytis cornuta | | 3 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpata | Cirratulidae | 8308 | | 1 | 7/11/213 | | Cirratulidae | | 2 | Y | DC | 1.0 | mm | | | initial | Lovell, L. | juv, 1 placed in misc poly by mistake |
| Annelida | Polychaeta | Unassigned | Cossuridae | 8308 | | 1 | 7/11/213 | | Cossura candida | | 2 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Unassigned | Cossuridae | 8308 | | 1 | 7/11/213 | | Cossura sp A | | 18 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Aciculata | Oeonidae | 8308 | | 1 | 7/11/213 | | Drilonereis sp | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | ant frag jaws missing |
| Annelida | Polychaeta | Canalipalpata | Sabellidae | 8308 | | 1 | 7/11/213 | | Euchone limnicola | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Aciculata | Phyllodoceidae | 8308 | | 1 | 7/11/213 | | Eumida tubiformis | | 2 | | DC | 1.0 | mm | 1 | | initial | Lovell, L. | |
| Annelida | Polychaeta | Aciculata | Glyceridae | 8308 | | 1 | 7/11/213 | | Glycera americana | | 3 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Aciculata | Goniadidae | 8308 | | 1 | 7/11/213 | | Goniada maculata | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | anterior got detached |
| Annelida | Polychaeta | Canalipalpata | Spionidae | 8308 | | 1 | 7/11/213 | | Laonice cirrata | | 3 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Unassigned | Orbinidae | 8308 | | 1 | 7/11/213 | | Leitoscoloplos sp A | | 2 | | DC | 1.0 | mm | | | initial | Lovell, L. | branchiae from set 11, 12 |
| Annelida | Polychaeta | Aciculata | Lumbrineridae | 8308 | | 1 | 7/11/213 | | Lumbrineris sp | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | ant frag |
| Annelida | Polychaeta | Aciculata | Polynoidae | 8308 | | 1 | 7/11/213 | | Malmgreniella macginitiei | | 3 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Aciculata | Eunicidae | 8308 | | 1 | 7/11/213 | | Marphysa disjuncta | | 3 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Unassigned | Capitellidae | 8308 | | 1 | 7/11/213 | | Mediomastus spp | | 7 | N | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpata | Cirratulidae | 8308 | | 1 | 7/11/213 | | Monticellina cryptica | | 5 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Unassigned | Capitellidae | 8308 | | 1 | 7/11/213 | | Notomastus hemipodus | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpata | Ampharetidae | 8308 | | 1 | 7/11/213 | | Paramage scutata | | 4 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpata | Spionidae | 8308 | | 1 | 7/11/213 | | Parapronospio alata | | 2 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpata | Pectinariidae | 8308 | | 1 | 7/11/213 | | Pectinaria californiensis | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpata | Terebellidae | 8308 | | 1 | 7/11/213 | | Pista brevibranchiata | | 5 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpata | Terebellidae | 8308 | | 1 | 7/11/213 | | Pista wui | | 9 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Aciculata | Hesionidae | 8308 | | 1 | 7/11/213 | | Podarkeopsis sp A | | 2 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpata | Poecilochaetidae | 8308 | | 1 | 7/11/213 | | Poecilochaetus martini | | 10 | | DC | 1.0 | mm | | | initial | Lovell, L. | 1 in frags by mistake |
| Annelida | Polychaeta | Unassigned | Maldanidae | 8308 | | 1 | 7/11/213 | | Praxillella pacifica | | 2 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpata | Spionidae | 8308 | | 1 | 7/11/213 | | Pronospio (Minuspio) multibranchiata | | 8 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Aciculata | Lumbrineridae | 8308 | | 1 | 7/11/213 | | Scoletoma sp A | | 2 | | DC | 1.0 | mm | 2 | | initial | Lovell, L. | |
| Annelida | Polychaeta | Aciculata | Lumbrineridae | 8308 | | 1 | 7/11/213 | | Scoletoma spp | | 3 | Y | DC | 1.0 | mm | | | initial | Lovell, L. | ant frags |
| Annelida | Polychaeta | Aciculata | Pilargidae | 8308 | | 1 | 7/11/213 | | Sigambra setosa | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpata | Chaetopteridae | 8308 | | 1 | 7/11/213 | | Spiochaetopterus costarum Cmplx | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpata | Spionidae | 8308 | | 1 | 7/11/213 | | Spiophanes berkeleyorum | | 2 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpata | Trichobranchidae | 8308 | | 1 | 7/11/213 | | Terebellides californica | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |

| Phylum | Class | Order | Family | StationID | SampleID | Replicate | SampleDate | SampleTime | Species | Qualifier | Abundance | Exclude | LabCode | SieveSize | SieveSizeUnits | Voucher | PersonalVoucher | AnalysisType | Taxonomist | Comments |
|----------|------------|------------|----------------|-----------|----------|-----------|------------|------------|--------------------------------------|-----------|-----------|---------|---------|-----------|----------------|---------|-----------------|--------------|------------|-----------------------|
| Annelida | Polychaeta | Canalipalp | Ampharetidae | 8310 | | | 1/7/11/213 | | Ampharete labrops | | 4 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalp | Ampharetidae | 8310 | | | 1/7/11/213 | | Ampharetidae | | 1 | Y | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalp | Ampharetidae | 8310 | | | 1/7/11/213 | | Amphicteis scaphobranchiata | | 4 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalp | Ampharetidae | 8310 | | | 1/7/11/213 | | Anobothrus gracilis | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalp | Cirratulidae | 8310 | | | 1/7/11/213 | | Aphelochaeta glandaria Cmplx | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalp | Cirratulidae | 8310 | | | 1/7/11/213 | | Aphelochaeta monilaris | | 16 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalp | Cirratulidae | 8310 | | | 1/7/11/213 | | Chaetozone corona | | 2 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalp | Cirratulidae | 8310 | | | 1/7/11/213 | | Chaetozone hartmanae | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Unassigned | Cossuridae | 8310 | | | 1/7/11/213 | | Cossura candida | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Unassigned | Cossuridae | 8310 | | | 1/7/11/213 | | Cossura sp | | 1 | Y | DC | 1.0 | mm | | | initial | Lovell, L. | juv., no stain |
| Annelida | Polychaeta | Unassigned | Cossuridae | 8310 | | | 1/7/11/213 | | Cossura sp A | | 25 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Aciculata | Glyceridae | 8310 | | | 1/7/11/213 | | Glyceria nana | | 2 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalp | Spionidae | 8310 | | | 1/7/11/213 | | Laonice cirrata | | 7 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Unassigned | Orbiniidae | 8310 | | | 1/7/11/213 | | Leitoscoloplos sp A | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | branchiae from set 12 |
| Annelida | Polychaeta | Aciculata | Lumbrineridae | 8310 | | | 1/7/11/213 | | Lumbrineris japonica | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Aciculata | Eunicidae | 8310 | | | 1/7/11/213 | | Marphysa disjuncta | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Unassigned | Capitellidae | 8310 | | | 1/7/11/213 | | Mediomastus sp | | 16 | N | DC | 1.0 | mm | | | initial | Lovell, L. | 1 put into frags |
| Annelida | Polychaeta | Unassigned | Maldanidae | 8310 | | | 1/7/11/213 | | Metasychis dispanidentatus | | 4 | | DC | 1.0 | mm | | | initial | Lovell, L. | 3 are juvs |
| Annelida | Polychaeta | Canalipalp | Cirratulidae | 8310 | | | 1/7/11/213 | | Monticellina sibilina | | 6 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Unassigned | Capitellidae | 8310 | | | 1/7/11/213 | | Nelusetta hemipodus | | 2 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalp | Ampharetidae | 8310 | | | 1/7/11/213 | | Paramage scutata | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalp | Terebellidae | 8310 | | | 1/7/11/213 | | Pista brevibranchiata | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalp | Terebellidae | 8310 | | | 1/7/11/213 | | Pista wuji | | 2 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Unassigned | Maldanidae | 8310 | | | 1/7/11/213 | | Praxillella pacifica | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalp | Spionidae | 8310 | | | 1/7/11/213 | | Pronospio (Minuspio) multibranchiata | | 2 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Aciculata | Lumbrineridae | 8310 | | | 1/7/11/213 | | Scoletoma sp | | 7 | | DC | 1.0 | mm | | | initial | Lovell, L. | ant frags |
| Annelida | Polychaeta | Aciculata | Pilargidae | 8310 | | | 1/7/11/213 | | Sigambra setosa | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalp | Chaetopteridae | 8310 | | | 1/7/11/213 | | Spiochaetopterus costarum Cmplx | | 2 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalp | Spionidae | 8310 | | | 1/7/11/213 | | Spiophanes berkeleyorum | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalp | Spionidae | 8310 | | | 1/7/11/213 | | Spiophanes duplex | | 4 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalp | Terebellidae | 8310 | | | 1/7/11/213 | | Streblosoma crassibranchia | | 2 | | DC | 1.0 | mm | | 1 | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalp | Terebellidae | 8310 | | | 1/7/11/213 | | Streblosoma sp B | | 8 | | DC | 1.0 | mm | | 1 | initial | Lovell, L. | |
| Annelida | Polychaeta | Aciculata | Syllidae | 8310 | | | 1/7/11/213 | | Typosyllis hyperionis | | 1 | | DC | 1.0 | mm | | 1 | initial | Lovell, L. | |

POLA/POLB Bight '13
Benthic Infauna

DRAFT DATA

| Phylum | Class | Order | Family | StationID | SampleID | Replicate | SampleDate | SampleTime | Species | Qualifier | Abundance | Exclude | LabCode | SieveSize | SieveSizeUnits | Voucher | PersonalVoucher | AnalysisType | Taxonomist | Comments |
|----------|------------|---------------|------------------|-----------|----------|-----------|------------|------------|---------------------------------|-----------|-----------|---------|---------|-----------|----------------|---------|-----------------|--------------|------------|---------------------------|
| Annelida | Polychaeta | Canalipalpata | Terebellidae | 8316 | | | 7/11/2013 | | Amaeana occidentalis | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpata | Cirratulidae | 8316 | | | 7/11/2013 | | Aphelocheata glandaria Cmplx | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpata | Cirratulidae | 8316 | | | 7/11/2013 | | Aphelocheata monilaris | | 6 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Aciculata | Nephtyidae | 8316 | | | 7/11/2013 | | Bipalponephyts comuta | | 2 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpata | Cirratulidae | 8316 | | | 7/11/2013 | | Cirratulidae | | 2 | Y | DC | 1.0 | mm | | | initial | Lovell, L. | juv |
| | | | Cossuridae | 8316 | | | 7/11/2013 | | Cosaura candida | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Unassigned | Cossuridae | 8316 | | | 7/11/2013 | | Cossura sp | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | juv |
| | | | Cossuridae | 8316 | | | 7/11/2013 | | Cossura sp A | | 7 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Aciculata | Onuphidae | 8316 | | | 7/11/2013 | | Diopatra tridentata | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Aciculata | Glyceridae | 8316 | | | 7/11/2013 | | Glycera americana | | 2 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpata | Spionidae | 8316 | | | 7/11/2013 | | Laonice cirrata | | 13 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Unassigned | Orbinidae | 8316 | | | 7/11/2013 | | Leitoscoloplos sp A | | 3 | | DC | 1.0 | mm | | | initial | Lovell, L. | branchiae set 10,12,12,12 |
| Annelida | Polychaeta | Aciculata | Polynoidae | 8316 | | | 7/11/2013 | | Malmgreniella macginitiei | | 2 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Aciculata | Polynoidae | 8316 | | | 7/11/2013 | | Malmgreniella sp | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | juv |
| Annelida | Polychaeta | Unassigned | Capitellidae | 8316 | | | 7/11/2013 | | Mediomastus sp | | 7 | N | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Unassigned | Maldanidae | 8316 | | | 7/11/2013 | | Metasychis disparidentatus | | 2 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpata | Cirratulidae | 8316 | | | 7/11/2013 | | Monticellina cryptica | | 2 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpata | Cirratulidae | 8316 | | | 7/11/2013 | | Monticellina siblina | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Aciculata | Nereididae | 8316 | | | 7/11/2013 | | Nereis sp A | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Aciculata | Lumbrineridae | 8316 | | | 7/11/2013 | | Ninoe tridentata | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Unassigned | Capitellidae | 8316 | | | 7/11/2013 | | Notomastus hemipodus | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpata | Ampharetidae | 8316 | | | 7/11/2013 | | Paramage scutata | | 12 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Unassigned | Paraonidae | 8316 | | | 7/11/2013 | | Paraonidae | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | damaged |
| Annelida | Polychaeta | Canalipalpata | Spionidae | 8316 | | | 7/11/2013 | | Paraprionospio alata | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpata | Pectinariidae | 8316 | | | 7/11/2013 | | Pectinaria californiensis | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Unassigned | Maldanidae | 8316 | | | 7/11/2013 | | Petaloclymene pacifica | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpata | Terebellidae | 8316 | | | 7/11/2013 | | Pista breviranchiata | | 7 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpata | Terebellidae | 8316 | | | 7/11/2013 | | Pista moorei | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpata | Terebellidae | 8316 | | | 7/11/2013 | | Pista wui | | 14 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpata | Poecilochaetidae | 8316 | | | 7/11/2013 | | Poecilochaetus johnsoni | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpata | Poecilochaetidae | 8316 | | | 7/11/2013 | | Poecilochaetus martini | | 3 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpata | Poecilochaetidae | 8316 | | | 7/11/2013 | | Poecilochaetus sp | | 1 | Y | DC | 1.0 | mm | | | initial | Lovell, L. | ant frag |
| | | | Poecilochaetidae | 8316 | | | 7/11/2013 | | Prionospio (Minuspio) | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpata | Spionidae | 8316 | | | 7/11/2013 | | multibranchiata | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Aciculata | Lumbrineridae | 8316 | | | 7/11/2013 | | Scoletoma tetraura Cmplx | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpata | Chaetopteridae | 8316 | | | 7/11/2013 | | Spiochaetopterus costarum Cmplx | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpata | Spionidae | 8316 | | | 7/11/2013 | | Spiophanes berkeleyorum | | 2 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpata | Spionidae | 8316 | | | 7/11/2013 | | Spiophanes duplex | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Aciculata | Sigalionidae | 8316 | | | 7/11/2013 | | Sthenelais tertiaglabra | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpata | Terebellidae | 8316 | | | 7/11/2013 | | Streblosoma sp | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | juv |
| Annelida | Polychaeta | Aciculata | Polynoidae | 8316 | | | 7/11/2013 | | Tenonia priops | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpata | Trichobranchidae | 8316 | | | 7/11/2013 | | Terebellides reishi | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |

POLA/POLB Bight '13
Benthic Infauna

DRAFT DATA

| Phylum | Class | Order | Family | StationID | SampleID | Replicate | SampleDate | SampleTime | Species | Qualifier | Abundance | Exclude | LabCode | SieveSize | SieveSizeUnits | Voucher | PersonalVoucher | AnalysisType | Taxonomist | Comments |
|----------|------------|---------------|------------------|-----------|----------|-----------|------------|------------|---------------------------------|-----------|-----------|---------|---------|-----------|----------------|---------|-----------------|--------------|------------|--------------------------------|
| Annelida | Polychaeta | Canalipalpata | Ampharetidae | 8318 | | 1 | 7/13/2013 | | Ampharetidae | | 1 | N | DC | 1.0 | mm | | | initial | Lovell, L. | not Amphicteis, do not exclude |
| Annelida | Polychaeta | Canalipalpata | Ampharetidae | 8318 | | 1 | 7/13/2013 | | Amphicteis scaphobranchiata | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpata | Cirratulidae | 8318 | | 1 | 7/13/2013 | | Aphelochaeta monilaris | | 5 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Unassigned | Cosuridae | 8318 | | 1 | 7/13/2013 | | Cosura candida | | 1 | | DC | 1.0 | mm | | | initial | | |
| Annelida | Polychaeta | Unassigned | Cosuridae | 8318 | | 1 | 7/13/2013 | | Cosura sp. A | | 12 | | DC | 1.0 | mm | | | initial | | |
| Annelida | Polychaeta | Aciculata | Onuphidae | 8318 | | 1 | 7/13/2013 | | Diopatra sp. | | 2 | | DC | 1.0 | mm | | | initial | Lovell, L. | juv |
| Annelida | Polychaeta | Aciculata | Glyceridae | 8318 | | 1 | 7/13/2013 | | Glycera americana | | 6 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpata | Spionidae | 8318 | | 1 | 7/13/2013 | | Laonice cirrata | | 9 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Unassigned | Orbinidae | 8318 | | 1 | 7/13/2013 | | Leitoscoloplos sp. A | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | branchiae set 13 |
| Annelida | Polychaeta | Aciculata | Lumbrineridae | 8318 | | 1 | 7/13/2013 | | Lumbrineris cruzensis | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Aciculata | Polynoidae | 8318 | | 1 | 7/13/2013 | | Malmgreniella macginittii | | 2 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Aciculata | Eunicidae | 8318 | | 1 | 7/13/2013 | | Marphysa disjuncta | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Unassigned | Capitellidae | 8318 | | 1 | 7/13/2013 | | Mediomastus sp. | | 1 | N | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Unassigned | Capitellidae | 8318 | | 1 | 7/13/2013 | | Notomastus hemipodus | | 2 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpata | Ampharetidae | 8318 | | 1 | 7/13/2013 | | Paramage scutata | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpata | Spionidae | 8318 | | 1 | 7/13/2013 | | Paraprionospio alata | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpata | Pectinariidae | 8318 | | 1 | 7/13/2013 | | Pectinaria californiensis | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Aciculata | Pholoidae | 8318 | | 1 | 7/13/2013 | | Pholoe glabra | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpata | Terebellidae | 8318 | | 1 | 7/13/2013 | | Pista brevirbranchiata | | 2 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpata | Terebellidae | 8318 | | 1 | 7/13/2013 | | Pista wui | | 3 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpata | Poecilochaetidae | 8318 | | 1 | 7/13/2013 | | Poecilochaetus martini | | 2 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpata | Poecilochaetidae | 8318 | | 1 | 7/13/2013 | | Poecilochaetus sp. | | 1 | Y | DC | 1.0 | mm | | | initial | Lovell, L. | ant frag |
| Annelida | Polychaeta | Aciculata | Lumbrineridae | 8318 | | 1 | 7/13/2013 | | Scotetoma tetraura Cmplx | | 3 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Aciculata | Pilargidae | 8318 | | 1 | 7/13/2013 | | Sigambra setosa | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpata | Chaetopteridae | 8318 | | 1 | 7/13/2013 | | Spiochaetopterus costarum Cmplx | | 3 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpata | Spionidae | 8318 | | 1 | 7/13/2013 | | Spiophanes berkeleyorum | | 3 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Aciculata | Polynoidae | 8318 | | 1 | 7/13/2013 | | Tenionia priops | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpata | Trichobranchidae | 8318 | | 1 | 7/13/2013 | | Terebellides californica | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |

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Benthic Infauna

DRAFT DATA

| Phylum | Class | Order | Family | StationID | SampleID | Replicate | SampleDate | SampleTime | Species | Qualifier | Abundance | Exclude | LabCode | SieveSize | SieveSizeUnits | Voucher | PersonalVoucher | AnalysisType | Taxonomic | Comments |
|----------|------------|---------------|----------------|-----------|----------|-----------|------------|------------|---------------------------------------|-----------|-----------|---------|---------|-----------|----------------|---------|-----------------|--------------|------------|------------------------|
| Annelida | Polychaeta | Canalipalpata | Ampharetidae | 8322 | | | 7/13/2013 | | Amphicteis scaphobranchiata | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpata | Cirratulidae | 8322 | | | 7/13/2013 | | Aphelocheila monilaris | | 5 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Unassigned | Cossuridae | 8322 | | | 7/13/2013 | | Cossura candida | | 7 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Unassigned | Cossuridae | 8322 | | | 7/13/2013 | | Cossura sp A | | 3 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Aciculata | Onuphidae | 8322 | | | 7/13/2013 | | Diopatra tridentata | | 2 | | DC | 1.0 | mm | | 1 | initial | Lovell, L. | |
| Annelida | Polychaeta | Aciculata | Dorvilleidae | 8322 | | | 7/13/2013 | | Dorvillea (Dorvillea) sp | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | DC indeterminate |
| Annelida | Polychaeta | Aciculata | Glyceridae | 8322 | | | 7/13/2013 | | Glycera americana | | 3 | | DC | 1.0 | mm | | | initial | Lovell, L. | branchiae missing on 1 |
| Annelida | Polychaeta | Aciculata | Goniadidae | 8322 | | | 7/13/2013 | | Goniada maculata | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpata | Spionidae | 8322 | | | 7/13/2013 | | Laonice cirrata | | 4 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Unassigned | Orbinidae | 8322 | | | 7/13/2013 | | Leitoscoloplos sp A | | 6 | | DC | 1.0 | mm | | | initial | Lovell, L. | branchiae set 10-13 |
| Annelida | Polychaeta | Aciculata | Lumbrineridae | 8322 | | | 7/13/2013 | | Lumbrineris japonica | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Aciculata | Polynoidae | 8322 | | | 7/13/2013 | | Malmgreniella macginitiei | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Unassigned | Maldanidae | 8322 | | | 7/13/2013 | | Metasychis disparidentatus | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpata | Cirratulidae | 8322 | | | 7/13/2013 | | Monticellina cryptica | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Aciculata | Lumbrineridae | 8322 | | | 7/13/2013 | | Ninoe tridentata | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Unassigned | Capitellidae | 8322 | | | 7/13/2013 | | Notomastus hemipodus | | 2 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpata | Ampharetidae | 8322 | | | 7/13/2013 | | Paramage sculata | | 6 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpata | Spionidae | 8322 | | | 7/13/2013 | | Paraprionospio alata | | 2 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Unassigned | Maldanidae | 8322 | | | 7/13/2013 | | Petaloclymene pacifica | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpata | Terebellidae | 8322 | | | 7/13/2013 | | Pista brevivibranchiata | | 10 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpata | Terebellidae | 8322 | | | 7/13/2013 | | Pista wu | | 13 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Unassigned | Maldanidae | 8322 | | | 7/13/2013 | | Praxillella pacifica | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpata | Spionidae | 8322 | | | 7/13/2013 | | Prionospio (Minuspio) multibranchiata | | 2 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Aciculata | Lumbrineridae | 8322 | | | 7/13/2013 | | Scoletoma sp | | 2 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpata | Chaetopteridae | 8322 | | | 7/13/2013 | | Spiochaetopterus costarum Cmplx | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |

| Phylum | Class | Order | Family | StationID | SampleID | Replicate | SampleDate | SampleTime | Species | Qualifier | Abundance | Exclude | LabCode | SieveSize | SieveSizeUnits | Voucher | PersonalVoucher | AnalysisType | Taxonomia | Comments |
|----------|------------|------------|------------------|-----------|----------|-----------|------------|------------|---------------------------------------|-----------|-----------|---------|---------|-----------|----------------|---------|-----------------|--------------|------------|-------------------------------------|
| Annelida | Polychaeta | Canalipalp | Cirratulidae | 8326 | | | 7/10/2013 | | Aphelocheata monilaris | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Unassigned | Cossuridae | 8326 | | | 7/10/2013 | | Cossura candida | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Unassigned | Cossuridae | 8326 | | | 7/10/2013 | | Cossura sp A | | 30 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Aciculata | Onuphidae | 8326 | | | 7/10/2013 | | Diopatra tridentata | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalp | Spionidae | 8326 | | | 7/10/2013 | | Dipolydora socialis | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Aciculata | Glyceridae | 8326 | | | 7/10/2013 | | Glycera americana | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalp | Spionidae | 8326 | | | 7/10/2013 | | Laonice cirrata | | 3 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Unassigned | Orbiniidae | 8326 | | | 7/10/2013 | | Leitoscoloplos sp A | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Aciculata | Lumbrineridae | 8326 | | | 7/10/2013 | | Lumbrineris japonica | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalp | Magelonidae | 8326 | | | 7/10/2013 | | Magelona berkeleyi | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Aciculata | Eunicidae | 8326 | | | 7/10/2013 | | Marphysa disjuncta | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Unassigned | Maldanidae | 8326 | | | 7/10/2013 | | Metasychis disparidentatus | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalp | Cirratulidae | 8326 | | | 7/10/2013 | | Monticellina sibilina | | 3 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalp | Spionidae | 8326 | | | 7/10/2013 | | Paraprionospio alata | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Unassigned | Maldanidae | 8326 | | | 7/10/2013 | | Petaloclymene pacifica | | 5 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalp | Terebellidae | 8326 | | | 7/10/2013 | | Pista brevirbranchiata | | 2 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Aciculata | Hesionidae | 8326 | | | 7/10/2013 | | Podarkeopsis sp A | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalp | Poecilochaetidae | 8326 | | | 7/10/2013 | | Poecilochaetus martini | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalp | Spionidae | 8326 | | | 7/10/2013 | | Prionospio (Minuspio) multibranchiata | | 4 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Aciculata | Lumbrineridae | 8326 | | | 7/10/2013 | | Scoletoms sp | | 13 | | DC | 1.0 | mm | | | initial | Lovell, L. | ant frags |
| Annelida | Polychaeta | Aciculata | Pilargidae | 8326 | | | 7/10/2013 | | Sigambra setosa | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalp | Chaetopteridae | 8326 | | | 7/10/2013 | | Spiochaetopterus costarum Cmplx | | 4 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalp | Spionidae | 8326 | | | 7/10/2013 | | Spiophanes berkeleyorum | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalp | Spionidae | 8326 | | | 7/10/2013 | | Spiophanes duplex | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalp | Terebellidae | 8326 | | | 7/10/2013 | | Streblosoma sp B | | 2 | | DC | 1.0 | mm | | 2 | initial | Lovell, L. | |
| Annelida | Polychaeta | Aciculata | Phyllodocidae | 8326 | | | 7/10/2013 | | Tenonia priops | | 2 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalp | Terebellidae | 8326 | | | 7/10/2013 | | Terebellinae | | 1 N | | DC | 1.0 | mm | | | initial | Lovell, L. | ant frags, not Pista or Streblosoma |

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| Phylum | Class | Order | Family | StationID | SampleID | Replicate | SampleDate | SampleTime | Species | Qualifier | Abundance | Exclude | LabCode | SieveSize | SieveSizeUnits | Voucher | PersonalVoucher | AnalystType | Taxonomist | Comments |
|----------|------------|---------------|---------------|-----------|----------|-----------|------------|------------|---------------------------------------|-----------|-----------|---------|---------|-----------|----------------|---------|-----------------|-------------|------------|---|
| Annelida | Polychaeta | Canalipalpata | Terebellidae | 8333 | | | 7/13/2013 | | Amaeana occidentalis | | 2 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpata | Ampharetidae | 8333 | | | 7/13/2013 | | Ampharete labrops | | 3 | | DC | 1.0 | mm | | 3 | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpata | Ampharetidae | 8333 | | | 7/13/2013 | | Amphicteis scaphobranchiata | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpata | Cirratulidae | 8333 | | | 7/13/2013 | | Aphelocheata monilaris | | 3 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpata | Cirratulidae | 8333 | | | 7/13/2013 | | Aphelocheata sp | | 1 | N | DC | 1.0 | mm | | | initial | Lovell, L. | ant frag, not A. monilaris, do not exclude |
| Annelida | Polychaeta | Aciculata | Polynoidae | 8333 | | | 7/13/2013 | | Arcteoebia sp LA1 | | 1 | | DC | 1.0 | mm | | 1 | initial | Lovell, L. | commensal in vouchered Streblosoma crassibranchia |
| Annelida | Polychaeta | Unassigned | Paraonidae | 8333 | | | 7/13/2013 | | Aricidea (Aricidea) wassi | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpata | Cirratulidae | 8333 | | | 7/13/2013 | | Cirratulidae | | 1 | Y | DC | 1.0 | mm | | | initial | Lovell, L. | juv |
| Annelida | Polychaeta | Unassigned | Cossuridae | 8333 | | | 7/13/2013 | | Cossura sp | | 1 | Y | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Unassigned | Cossuridae | 8333 | | | 7/13/2013 | | Cossura sp A | | 6 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpata | Spionidae | 8333 | | | 7/13/2013 | | Dipolydora bidentata | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpata | Spionidae | 8333 | | | 7/13/2013 | | Dipolydora socialis | | 3 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Unassigned | Maldanidae | 8333 | | | 7/13/2013 | | Eucymerinae sp A | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Aciculata | Goniadidae | 8333 | | | 7/13/2013 | | Goniada maculata | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Unassigned | Capitellidae | 8333 | | | 7/13/2013 | | Mediomastus sp | | 2 | N | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpata | Cirratulidae | 8333 | | | 7/13/2013 | | Monticellina cryptica | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpata | Cirratulidae | 8333 | | | 7/13/2013 | | Monticellina sibilina | | 3 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Aciculata | Nereididae | 8333 | | | 7/13/2013 | | Nereis sp A | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Aciculata | Lumbrineridae | 8333 | | | 7/13/2013 | | Ninoe tridentata | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpata | Sabellidae | 8333 | | | 7/13/2013 | | Paradialychone paramollis | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpata | Ampharetidae | 8333 | | | 7/13/2013 | | Paramage scutata | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpata | Spionidae | 8333 | | | 7/13/2013 | | Paraprionospio alata | | 2 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Unassigned | Maldanidae | 8333 | | | 7/13/2013 | | Petalochymene pacifica | | 5 | | DC | 1.0 | mm | | | initial | Lovell, L. | 1 broken |
| Annelida | Polychaeta | Canalipalpata | Spionidae | 8333 | | | 7/13/2013 | | Polydora sp | | 1 | N | DC | 1.0 | mm | | | initial | Lovell, L. | juv |
| Annelida | Polychaeta | Canalipalpata | Spionidae | 8333 | | | 7/13/2013 | | Prionospio (Minuspio) multibranchiata | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpata | Spionidae | 8333 | | | 7/13/2013 | | Prionospio (Prionospio) jubata | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Aciculata | Lumbrineridae | 8333 | | | 7/13/2013 | | Scoletoma sp | | 2 | Y | DC | 1.0 | mm | | | initial | Lovell, L. | post missing |
| Annelida | Polychaeta | Aciculata | Lumbrineridae | 8333 | | | 7/13/2013 | | Scoletoma sp B | | 2 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpata | Spionidae | 8333 | | | 7/13/2013 | | Spiophanes duplex | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpata | Sternaspidae | 8333 | | | 7/13/2013 | | Sternaspis affinis | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpata | Terebellidae | 8333 | | | 7/13/2013 | | Streblosoma crassibranchia | | 2 | | DC | 1.0 | mm | | 1 | initial | Lovell, L. | Arcteoebia sp LA1 commensal in tube |
| Annelida | Polychaeta | Aciculata | Syllidae | 8333 | | | 7/13/2013 | | Typosyllis hyperioni | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |

| Phylum | Class | Order | Family | StationID | SampleID | Replicate | SampleDate | SampleTime | Species | Qualifier | Abundance | Exclude | LabCode | SieveSize | SieveSizeUnits | Voucher | PersonalVoucher | AnalysisType | Taxonomist | Comments |
|----------|------------|--------------|---------------|-----------|----------|-----------|------------|------------|---------------------------------------|-----------|-----------|---------|---------|-----------|----------------|---------|-----------------|--------------|------------|--|
| Annelida | Polychaeta | Canalipalpat | Cirratulidae | 8240 | | | 7/12/2013 | | Aphelochaeta monilaris | | 2 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpat | Cirratulidae | 8240 | | | 7/12/2013 | | Aphelochaeta sp | | 6 | N | DC | 1.0 | mm | | | initial | Lovell, L. | mix of 2 species |
| Annelida | Polychaeta | Canalipalpat | Cirratulidae | 8240 | | | 7/12/2013 | | Chaetozone corona | | 2 | | DC | 1.0 | mm | | 2 | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpat | Cirratulidae | 8240 | | | 7/12/2013 | | Cirratulidae | | 3 | Y | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Unassigned | Cossuridae | 8240 | | | 7/12/2013 | | Cossura sp A | | 34 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpat | Sabellidae | 8240 | | | 7/12/2013 | | Euchoe limnicola | | 25 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpat | Spionidae | 8240 | | | 7/12/2013 | | Laonice cirrata | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Unassigned | Orbiniidae | 8240 | | | 7/12/2013 | | Leitoscoloplos sp A | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | branchiae set 11 |
| Annelida | Polychaeta | Aciculata | Polynoidae | 8240 | | | 7/12/2013 | | Malmgreniella macginitiei | | 4 | | DC | 1.0 | mm | | | initial | Lovell, L. | 2 w/fine tips on some noto, not worn?? |
| Annelida | Polychaeta | Unassigned | Capitellidae | 8240 | | | 7/12/2013 | | Mediomastus sp | | 15 | N | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpat | Cirratulidae | 8240 | | | 7/12/2013 | | Monticellina cryptica | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpat | Cirratulidae | 8240 | | | 7/12/2013 | | Monticellina sibilina | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpat | Ampharetidae | 8240 | | | 7/12/2013 | | Paramage scutata | | 4 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpat | Spionidae | 8240 | | | 7/12/2013 | | Parapionospio alata | | 4 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpat | Terebellidae | 8240 | | | 7/12/2013 | | Pista brevibranchiata | | 2 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpat | Terebellidae | 8240 | | | 7/12/2013 | | Pista wui | | 5 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpat | Spionidae | 8240 | | | 7/12/2013 | | Prionospio (Minuspio) multibranchiata | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Aciculata | Lumbrineridae | 8240 | | | 7/12/2013 | | Scoletoma sp | | 5 | Y | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Aciculata | Lumbrineridae | 8240 | | | 7/12/2013 | | Scoletoma tetraura Cmplx | | 3 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Aciculata | Pilargidae | 8240 | | | 7/12/2013 | | Sigambra setosa | | 5 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpat | Spionidae | 8240 | | | 7/12/2013 | | Spiophanes berkeleyorum | | 2 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpat | Terebellidae | 8240 | | | 7/12/2013 | | Streblosoma sp B | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |

| Phylum | Class | Order | Family | StationID | SampleID | Replicate | SampleDate | SampleTime | Species | Qualifier | Abundance | Exclude | LabCode | SieveSize | SieveSizeUm | Voucher | PersonalVou | AnalysisTyp | Taxonomist | Comments |
|----------|------------|--------------|------------------|-----------|----------|-----------|------------|------------|---------------------------------------|-----------|-----------|---------|---------|-----------|-------------|---------|-------------|-------------|------------|---|
| Annelida | Polychaeta | Canalipalpat | Ampharetidae | 8347 | | | 7/12/2013 | | Amphicteis scaphobranchiata | | 2 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpat | Cirratulidae | 8347 | | | 7/12/2013 | | Aphelocheata glandaria Cmplx | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpat | Cirratulidae | 8347 | | | 7/12/2013 | | Aphelocheata monilaris | | 14 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Aciculata | Nephtyidae | 8347 | | | 7/12/2013 | | Bipalponephyys cornuta | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpat | Cirratulidae | 8347 | | | 7/12/2013 | | Chaetozone sp | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | juv |
| Annelida | Polychaeta | Unassigned | Cossuridae | 8347 | | | 7/12/2013 | | Cossura candida | | 12 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Unassigned | Cossuridae | 8347 | | | 7/12/2013 | | Cossura sp | 2 Y | | | DC | 1.0 | mm | | | initial | Lovell, L. | juvs |
| Annelida | Polychaeta | Unassigned | Cossuridae | 8347 | | | 7/12/2013 | | Cossura sp A | | 5 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Aciculata | Dorvilleidae | 8347 | | | 7/12/2013 | | Dorvillea (Schistomerings) sp | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | juv |
| Annelida | Polychaeta | Unassigned | Maldanidae | 8347 | | | 7/12/2013 | | Euclymeninae sp A | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Aciculata | Glyceridae | 8347 | | | 7/12/2013 | | Glycera americana | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpat | Spionidae | 8347 | | | 7/12/2013 | | Laionce cirrata | | 5 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Unassigned | Orbiniidae | 8347 | | | 7/12/2013 | | Leitoscoloplos sp A | | 3 | | DC | 1.0 | mm | | | initial | Lovell, L. | branchiae set 10, 11, 13 |
| Annelida | Polychaeta | Unassigned | Paraonidae | 8347 | | | 7/12/2013 | | Levinisia sp B | | 2 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Aciculata | Eunicidae | 8347 | | | 7/12/2013 | | Marphysa disjuncta | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Unassigned | Capitellidae | 8347 | | | 7/12/2013 | | Mediomastus sp | | 12 N | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpat | Ampharetidae | 8347 | | | 7/12/2013 | | Melinna oculata | | 2 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Unassigned | Maldanidae | 8347 | | | 7/12/2013 | | Metasychis disparidentatus | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpat | Cirratulidae | 8347 | | | 7/12/2013 | | Monticollina cryptica | | 8 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Aciculata | Nereididae | 8347 | | | 7/12/2013 | | Nereis sp A | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Aciculata | Lumbrineridae | 8347 | | | 7/12/2013 | | Ninnoe tridentata | | 2 | | DC | 1.0 | mm | | 2 | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpat | Ampharetidae | 8347 | | | 7/12/2013 | | Paramage scutata | | 4 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpat | Pectinariidae | 8347 | | | 7/12/2013 | | Pectinaria californiensis | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpat | Terebellidae | 8347 | | | 7/12/2013 | | Pista brevibranchiata | | 6 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpat | Terebellidae | 8347 | | | 7/12/2013 | | Pista wui | | 14 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Aciculata | Hesionidae | 8347 | | | 7/12/2013 | | Podarkaeopsis sp A | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpat | Poecilochaetidae | 8347 | | | 7/12/2013 | | Poecilochaetus martini | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpat | Terebellidae | 8347 | | | 7/12/2013 | | Polycirus sp | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | juv |
| Annelida | Polychaeta | Canalipalpat | Spionidae | 8347 | | | 7/12/2013 | | Prionospio (Minuspio) multibranchiata | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Aciculata | Lumbrineridae | 8347 | | | 7/12/2013 | | Scoletoma sp | | 1 N | | DC | 1.0 | mm | | | initial | Lovell, L. | not S. tetraura Cmplx, hooks not from set 1-4 |
| Annelida | Polychaeta | Aciculata | Lumbrineridae | 8347 | | | 7/12/2013 | | Scoletoma tetraura Cmplx | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Aciculata | Pilargidae | 8347 | | | 7/12/2013 | | Sigambra setosa | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpat | Spionidae | 8347 | | | 7/12/2013 | | Spiophanes berkeleyorum | | 4 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpat | Spionidae | 8347 | | | 7/12/2013 | | Spiophanes duplex | | 3 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpat | Terebellidae | 8347 | | | 7/12/2013 | | Streblosoma sp B | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |

| Phylum | Class | Order | Family | StationID | SampleID | Replicate | SampleDate | SampleTime | Species | Qualifier | Abundance | Exclude | LabCode | SieveSize | SieveSizeUnits | Voucher | PersonalVoucher | AnalysisType | Taxonomic | Comments |
|----------|------------|--------------|----------------|-----------|----------|-----------|------------|------------|---------------------------------------|-----------|-----------|---------|---------|-----------|----------------|---------|-----------------|--------------|------------|----------|
| Annelida | Polychaeta | Canalipalpat | Ampharetidae | 8349 | | | 7/10/2013 | | | | 1 | N | DC | 1.0 | mm | | | initial | Lovell, L. | juv |
| Annelida | Polychaeta | Canalipalpat | Cirratulidae | 8349 | | | 7/10/2013 | | Aphelocheata monilaris | | 2 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Aciculata | Nephtyidae | 8349 | | | 7/10/2013 | | Bipalponephytis cornuta | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Unassigned | Cossuridae | 8349 | | | 7/10/2013 | | Cossura candida | | 2 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Unassigned | Cossuridae | 8349 | | | 7/10/2013 | | Cossura sp A | | 9 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Aciculata | Glyceridae | 8349 | | | 7/10/2013 | | Glycera americana | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpat | Spionidae | 8349 | | | 7/10/2013 | | Laonice cirrata | | 3 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Aciculata | Polynoidae | 8349 | | | 7/10/2013 | | Malmgreniella macginitiei | | 2 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Unassigned | Capitellidae | 8349 | | | 7/10/2013 | | Mediomastus sp | | 3 | N | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Aciculata | Nereididae | 8349 | | | 7/10/2013 | | Nereis sp A | | 2 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpat | Spionidae | 8349 | | | 7/10/2013 | | Paraprionospio alata | | 2 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpat | Terebellidae | 8349 | | | 7/10/2013 | | Pista wui | | 3 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpat | Spionidae | 8349 | | | 7/10/2013 | | Prionospio (Minuspio) multibranchiata | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Aciculata | Lumbrineridae | 8349 | | | 7/10/2013 | | Scoletoma sp | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | ant frag |
| Annelida | Polychaeta | Canalipalpat | Chaetopteridae | 8349 | | | 7/10/2013 | | Spiochaetopterus costarum Cmplx | | 2 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpat | Terebellidae | 8349 | | | 7/10/2013 | | Streblosoma sp | | 2 | N | DC | 1.0 | mm | | | initial | Lovell, L. | |

POLA/POLB Bight '13
Benthic Infauna

DRAFT DATA

| Phylum | Class | Order | Family | StationID | SampleID | Replicate | SampleDate | SampleTime | Species | Qualifier | Abundance | Exclude | LabCode | SieveSize | SieveSizeUnits | Voucher | PersonalVoucher | AnalysisType | Taxonomic | Comments |
|----------|------------|--------------|------------------|-----------|----------|-----------|------------|------------|---------------------------------------|-----------|-----------|---------|---------|-----------|----------------|---------|-----------------|--------------|------------|---------------------------|
| Annelida | Polychaeta | Canalipalpat | Cirratulidae | 8356 | | | 7/13/2013 | | Aphelocheata glandaria Cmplx | | 2 | | DC | 1.0 | mm | | | initial | Lovell. L. | |
| Annelida | Polychaeta | Canalipalpat | Cirratulidae | 8356 | | | 7/13/2013 | | Aphelocheata monilaris | | 5 | | DC | 1.0 | mm | | | initial | Lovell. L. | |
| Annelida | Polychaeta | Unassigned | Cossuridae | 8356 | | | 7/13/2013 | | Cossura candida | | 16 | | DC | 1.0 | mm | | | initial | Lovell. L. | |
| Annelida | Polychaeta | Unassigned | Cossuridae | 8356 | | | 7/13/2013 | | Cossura sp A | | 51 | | DC | 1.0 | mm | | | initial | Lovell. L. | |
| Annelida | Polychaeta | Aciculata | Oeononidae | 8356 | | | 7/13/2013 | | Driloneris falcata | | 2 | | DC | 1.0 | mm | | 2 | initial | Lovell. L. | |
| Annelida | Polychaeta | Unassigned | Maldanidae | 8356 | | | 7/13/2013 | | Eudymeninae | Y | 1 | | DC | 1.0 | mm | | | initial | Lovell. L. | juv |
| Annelida | Polychaeta | Aciculata | Nereididae | 8356 | | | 7/13/2013 | | Gymnonereis crosslandi | | 1 | | DC | 1.0 | mm | | | initial | Lovell. L. | |
| Annelida | Polychaeta | Canalipalpat | Spionidae | 8356 | | | 7/13/2013 | | Laonice nuchala | | 1 | | DC | 1.0 | mm | | | initial | Lovell. L. | |
| Annelida | Polychaeta | Unassigned | Orbiniidae | 8356 | | | 7/13/2013 | | Leitoscoloplos sp A | | 2 | | DC | 1.0 | mm | | | initial | Lovell. L. | branchiae from set 13, 13 |
| Annelida | Polychaeta | Aciculata | Lumbrineridae | 8356 | | | 7/13/2013 | | Lumbrineridae | Y | 1 | | DC | 1.0 | mm | | | initial | Lovell. L. | juv |
| Annelida | Polychaeta | Aciculata | Lumbrineridae | 8356 | | | 7/13/2013 | | Lumbrineris cruzensis | | 1 | | DC | 1.0 | mm | | | initial | Lovell. L. | |
| Annelida | Polychaeta | Aciculata | Lumbrineridae | 8356 | | | 7/13/2013 | | Lumbrineris japonica | | 2 | | DC | 1.0 | mm | | | initial | Lovell. L. | |
| Annelida | Polychaeta | Aciculata | Polynoidae | 8356 | | | 7/13/2013 | | Malmgreniella sp | | 2 | | DC | 1.0 | mm | | | initial | Lovell. L. | |
| Annelida | Polychaeta | Aciculata | Eunicidae | 8356 | | | 7/13/2013 | | Marphysa disjuncta | | 18 | | DC | 1.0 | mm | | | initial | Lovell. L. | |
| Annelida | Polychaeta | Unassigned | Capitellidae | 8356 | | | 7/13/2013 | | Mediomastus sp | N | 7 | | DC | 1.0 | mm | | | initial | Lovell. L. | |
| Annelida | Polychaeta | Canalipalpat | Ampharetidae | 8356 | | | 7/13/2013 | | Melinna oculata | | 1 | | DC | 1.0 | mm | | | initial | Lovell. L. | |
| Annelida | Polychaeta | Canalipalpat | Cirratulidae | 8356 | | | 7/13/2013 | | Monticellina cryptica | | 5 | | DC | 1.0 | mm | | | initial | Lovell. L. | |
| Annelida | Polychaeta | Canalipalpat | Cirratulidae | 8356 | | | 7/13/2013 | | Monticellina sibilina | | 3 | | DC | 1.0 | mm | | | initial | Lovell. L. | |
| Annelida | Polychaeta | Aciculata | Nereididae | 8356 | | | 7/13/2013 | | Nereis sp A | | 1 | | DC | 1.0 | mm | | | initial | Lovell. L. | |
| Annelida | Polychaeta | Aciculata | Lumbrineridae | 8356 | | | 7/13/2013 | | Ninoe tridentata | | 3 | | DC | 1.0 | mm | | | initial | Lovell. L. | |
| Annelida | Polychaeta | Aciculata | Onuphidae | 8356 | | | 7/13/2013 | | Onuphidae | N | 1 | | DC | 1.0 | mm | | | initial | Lovell. L. | Juv |
| Annelida | Polychaeta | Canalipalpat | Ampharetidae | 8356 | | | 7/13/2013 | | Paramage scutata | | 7 | | DC | 1.0 | mm | | | initial | Lovell. L. | |
| Annelida | Polychaeta | Unassigned | Maldanidae | 8356 | | | 7/13/2013 | | Petalochymene pacifica | | 1 | | DC | 1.0 | mm | | | initial | Lovell. L. | |
| Annelida | Polychaeta | Aciculata | Pholidae | 8356 | | | 7/13/2013 | | Pholoe glabra | | 1 | | DC | 1.0 | mm | | | initial | Lovell. L. | |
| Annelida | Polychaeta | Canalipalpat | Terebellidae | 8356 | | | 7/13/2013 | | Pista brevisbranchia | | 8 | | DC | 1.0 | mm | | | initial | Lovell. L. | |
| Annelida | Polychaeta | Canalipalpat | Terebellidae | 8356 | | | 7/13/2013 | | Pista wuji | | 4 | | DC | 1.0 | mm | | | initial | Lovell. L. | |
| Annelida | Polychaeta | Aciculata | Hesionidae | 8356 | | | 7/13/2013 | | Podarkeopsis sp A | | 1 | | DC | 1.0 | mm | | | initial | Lovell. L. | |
| Annelida | Polychaeta | Canalipalpat | Poecilochaetidae | 8356 | | | 7/13/2013 | | Poecilochaetus martini | | 1 | | DC | 1.0 | mm | | | initial | Lovell. L. | |
| Annelida | Polychaeta | Unassigned | Maldanidae | 8356 | | | 7/13/2013 | | Praxillella gracilis | | 1 | | DC | 1.0 | mm | | | initial | Lovell. L. | |
| Annelida | Polychaeta | Canalipalpat | Spionidae | 8356 | | | 7/13/2013 | | Prionospio (Minuspio) multibranchiata | | 3 | | DC | 1.0 | mm | | | initial | Lovell. L. | |
| Annelida | Polychaeta | Canalipalpat | Spionidae | 8356 | | | 7/13/2013 | | Prionospio (Prionospio) jubata | | 2 | | DC | 1.0 | mm | | | initial | Lovell. L. | |
| Annelida | Polychaeta | Aciculata | Lumbrineridae | 8356 | | | 7/13/2013 | | Scoletoma sp | N | 10 | | DC | 1.0 | mm | | | initial | Lovell. L. | |
| Annelida | Polychaeta | Aciculata | Pilargidae | 8356 | | | 7/13/2013 | | Sigambra setosa | | 2 | | DC | 1.0 | mm | | | initial | Lovell. L. | |
| Annelida | Polychaeta | Canalipalpat | Chaetopteridae | 8356 | | | 7/13/2013 | | Spiochaetopterus costarum Cmplx | | 3 | | DC | 1.0 | mm | | | initial | Lovell. L. | |
| Annelida | Polychaeta | Canalipalpat | Terebellidae | 8356 | | | 7/13/2013 | | Streblosoma crassibranchia | | 1 | | DC | 1.0 | mm | | | initial | Lovell. L. | |
| Annelida | Polychaeta | Canalipalpat | Terebellidae | 8356 | | | 7/13/2013 | | Streblosoma sp B | | 3 | | DC | 1.0 | mm | | | initial | Lovell. L. | |
| Annelida | Polychaeta | Aciculata | Syllidae | 8356 | | | 7/13/2013 | | Typosyllis hyperion | | 2 | | DC | 1.0 | mm | | | initial | Lovell. L. | |

POLA/POLB Bight '13
Benthic Infauna

DRAFT DATA

| Phylum | Class | Order | Family | StationID | SampleID | Replicate | SampleDate | SampleTime | Species | Qualifier | Abundance | Exclude | LabCode | SieveSize | SieveSizeUnits | Voucher | PersonalVoucher | AnalysisType | Taxonomist | Comments |
|----------|------------|--------------|------------------|-----------|----------|-----------|------------|------------|---------------------------------------|-----------|-----------|---------|---------|-----------|----------------|---------|-----------------|--------------|------------|-------------------------------|
| Annelida | Polychaeta | Canalipalpat | Cirratulidae | 8360 | | | 7/12/2013 | | Aphelocheata monilaris | | 17 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Aciculata | Oeononidae | 8360 | | | 7/12/2013 | | Arabella sp | | 1 | N | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Aciculata | Polynoidae | 8360 | | | 7/12/2013 | | Arcteoobia cf antiochiensis | | 2 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpat | Spionidae | 8360 | | | 7/12/2013 | | Boccardiella sp | | 1 | N | DC | 1.0 | mm | | | initial | Lovell, L. | not posterior setigers |
| Annelida | Polychaeta | Unassigned | Cossuridae | 8360 | | | 7/12/2013 | | Cossura sp | | 1 | Y | DC | 1.0 | mm | | | initial | Lovell, L. | juv |
| Annelida | Polychaeta | Unassigned | Cossuridae | 8360 | | | 7/12/2013 | | Cossura sp A | | 12 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Aciculata | Onuphidae | 8360 | | | 7/12/2013 | | Diopatra ornata | | 2 | | DC | 1.0 | mm | | | initial | Lovell, L. | juv, 1 lost? |
| Annelida | Polychaeta | Canalipalpat | Spionidae | 8360 | | | 7/12/2013 | | Dipolydora socialis | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Aciculata | Oeononidae | 8360 | | | 7/12/2013 | | Drilonereis sp | | 3 | N | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Unassigned | Maldanidae | 8360 | | | 7/12/2013 | | Euclymeninae | | 3 | N | DC | 1.0 | mm | | | initial | Lovell, L. | juv, ant frag |
| Annelida | Polychaeta | Aciculata | Glyceridae | 8360 | | | 7/12/2013 | | Glycera americana | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Aciculata | Dorvilleidae | 8360 | | | 7/12/2013 | | Glycera sp | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | juv |
| Annelida | Polychaeta | Aciculata | Polynoidae | 8360 | | | 7/12/2013 | | Hesperonoe sp | | 2 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpat | Spionidae | 8360 | | | 7/12/2013 | | Laonice cirrata | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Unassigned | Opheliidae | 8360 | | | 7/12/2013 | | Leitoscoloplos | | 12 | | DC | 1.0 | mm | | | initial | Lovell, L. | branchiae from set 11, 12, 13 |
| Annelida | Polychaeta | Aciculata | Lumbrineridae | 8360 | | | 7/12/2013 | | Lumbrineris japonica | | 5 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Aciculata | Lumbrineridae | 8360 | | | 7/12/2013 | | Lumbrineridae | | 1 | Y | DC | 1.0 | mm | | | initial | Lovell, L. | juv, simple hooks |
| Annelida | Polychaeta | Canalipalpat | Ampharetidae | 8360 | | | 7/12/2013 | | Lysippe sp A | | 2 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Aciculata | Eunicidae | 8360 | | | 7/12/2013 | | Marphysa disjuncta | | 12 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Unassigned | Capitellidae | 8360 | | | 7/12/2013 | | Mediomastus sp | | 9 | N | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpat | Cirratulidae | 8360 | | | 7/12/2013 | | Monticellina cryptica | | 7 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Unassigned | Capitellidae | 8360 | | | 7/12/2013 | | Notomastus hemipodus | | 2 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpat | Oweniidae | 8360 | | | 7/12/2013 | | Owenia collaris | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Aciculata | Hesionidae | 8360 | | | 7/12/2013 | | Oxydromus pugettensis | | 1 | | DC | 1.0 | mm | | 1 | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpat | Spionidae | 8360 | | | 7/12/2013 | | Paraprionospio alata | | 3 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpat | Pectinariidae | 8360 | | | 7/12/2013 | | Pectinaria californiensis | | 2 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Unassigned | Maldanidae | 8360 | | | 7/12/2013 | | Petaloclymene pacifica | | 2 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpat | Terebellidae | 8360 | | | 7/12/2013 | | Polycirrus sp OC1 | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpat | Spionidae | 8360 | | | 7/12/2013 | | Prionospio (Miruspio) multibranchiata | | 2 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpat | Spionidae | 8360 | | | 7/12/2013 | | Prionospio (Prionospio) dubia | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpat | Spionidae | 8360 | | | 7/12/2013 | | Prionospio (Prionospio) jubata | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Unassigned | Scalibregmatidae | 8360 | | | 7/12/2013 | | Scalibregma californicum | | 7 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Aciculata | Lumbrineridae | 8360 | | | 7/12/2013 | | Scoletoma sp | | 9 | Y | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Aciculata | Lumbrineridae | 8360 | | | 7/12/2013 | | Scoletoma sp A | | 5 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Aciculata | Lumbrineridae | 8360 | | | 7/12/2013 | | Scoletoma sp B | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpat | Chaetopteridae | 8360 | | | 7/12/2013 | | Spiochaetopterus costarum Cmpix | | 4 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpat | Spionidae | 8360 | | | 7/12/2013 | | Spiophanes duplex | | 2 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Aciculata | Sigalionidae | 8360 | | | 7/12/2013 | | Sthenelais tertialabra | | 8 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Aciculata | Sigalionidae | 8360 | | | 7/12/2013 | | Sthenelaisella uniformis | | 7 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpat | Terebellidae | 8360 | | | 7/12/2013 | | Streblosoma crassibranchia | | 4 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Aciculata | Polynoidae | 8360 | | | 7/12/2013 | | Tenonia priops | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpat | Trichobranchidae | 8360 | | | 7/12/2013 | | Terebellides californica | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Aciculata | Syllidae | 8360 | | | 7/12/2013 | | Typosyllis hyperioni | | 3 | | DC | 1.0 | mm | | | initial | Lovell, L. | |

| Phylum | Class | Order | Family | StationID | SampleID | Replicate | SampleDate | SampleTime | Species | Qualifier | Abundance | Exclude | LabCode | SieveSize | SieveSizeUnits | Voucher | PersonalVoucher | AnalysisType | Taxonomic | Comments |
|----------|------------|--------------|---------------|-----------|----------|-----------|------------|------------|------------------------------|-----------|-----------|---------|---------|-----------|----------------|---------|-----------------|--------------|------------|------------------------------------|
| Annelida | Polychaeta | Canalipalpat | Ampharetidae | 8363 | | | 7/10/2013 | | Ampharete labrops | | 4 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpat | Ampharetidae | 8363 | | | 7/10/2013 | | Amphiteis scaphobranchiata | | 3 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpat | Cirratulidae | 8363 | | | 7/10/2013 | | Aphelochaeta petersenae | | 15 | | DC | 1.0 | mm | | | initial | Lovell, L. | ? Head ends did not stain well |
| Annelida | Polychaeta | Aciculata | Polynoidae | 8363 | | | 7/10/2013 | | Arcteoibia cf. antcostiensis | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Aciculata | Polynoidae | 8363 | | | 7/10/2013 | | Arcteoibia sp LA1 | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpat | Cirratulidae | 8363 | | | 7/10/2013 | | Chaetozone corona | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Unassigned | Cossuridae | 8363 | | | 7/10/2013 | | Cossura candida | | 3 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Unassigned | Cossuridae | 8363 | | | 7/10/2013 | | Cossura sp | | 4 | N | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Unassigned | Cossuridae | 8363 | | | 7/10/2013 | | Cossura sp A | | 8 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Aciculata | Onuphidae | 8363 | | | 7/10/2013 | | Diopatra tridentata | | 2 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpat | Spionidae | 8363 | | | 7/10/2013 | | Diplydora bidentata | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Aciculata | Oeonidae | 8363 | | | 7/10/2013 | | Dilonereis sp | | 2 | N | DC | 1.0 | mm | | | initial | Lovell, L. | ant frags, dentition indeterminate |
| Annelida | Polychaeta | Canalipalpat | Sabellidae | 8363 | | | 7/10/2013 | | Euchone limnicola | | 23 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Aciculata | Glyceridae | 8363 | | | 7/10/2013 | | Glycera americana | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Aciculata | Goniadidae | 8363 | | | 7/10/2013 | | Goniada maculata | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpat | Spionidae | 8363 | | | 7/10/2013 | | Laonice cirrata | | 3 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Unassigned | Orbiniidae | 8363 | | | 7/10/2013 | | Leitoscoloplos sp A | | 3 | | DC | 1.0 | mm | | | initial | Lovell, L. | branchiae from set 11, 12, 13 |
| Annelida | Polychaeta | Aciculata | Lumbrineridae | 8363 | | | 7/10/2013 | | Lumbrineris japonica | | 3 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Aciculata | Polynoidae | 8363 | | | 7/10/2013 | | Malmgreniella macginitiei | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Aciculata | Eunicidae | 8363 | | | 7/10/2013 | | Marphysa disjuncta | | 5 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpat | Ampharetidae | 8363 | | | 7/10/2013 | | Melinna oculata | | 2 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Unassigned | Maldanidae | 8363 | | | 7/10/2013 | | Metasychis disparidentatus | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpat | Cirratulidae | 8363 | | | 7/10/2013 | | Monticollina cryptica | | 2 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpat | Cirratulidae | 8363 | | | 7/10/2013 | | Monticollina siblina | | 3 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Aciculata | Nereididae | 8363 | | | 7/10/2013 | | Nereis sp A | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Aciculata | Lumbrineridae | 8363 | | | 7/10/2013 | | Ninoe tridentata | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpat | Sabellidae | 8363 | | | 7/10/2013 | | Paradialychone harrisae | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpat | Ampharetidae | 8363 | | | 7/10/2013 | | Paramage scutata | | 5 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpat | Spionidae | 8363 | | | 7/10/2013 | | Paraprionospio alata | | 4 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Unassigned | Maldanidae | 8363 | | | 7/10/2013 | | Petaloclymene pacifica | | 2 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Aciculata | Phylodocidae | 8363 | | | 7/10/2013 | | Phylodoce hartmanae | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpat | Terebellidae | 8363 | | | 7/10/2013 | | Pista brevisbranchiata | | 7 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpat | Terebellidae | 8363 | | | 7/10/2013 | | Pista wul | | 7 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Aciculata | Hesionidae | 8363 | | | 7/10/2013 | | Podarkeopsis sp A | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Aciculata | Lumbrineridae | 8363 | | | 7/10/2013 | | Scoletoma sp | | 1 | N | DC | 1.0 | mm | | | initial | Lovell, L. | ant frag |
| Annelida | Polychaeta | Aciculata | Pilargidae | 8363 | | | 7/10/2013 | | Sigambra setosa | | 2 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpat | Spionidae | 8363 | | | 7/10/2013 | | Spiophanes berkeleyorum | | 2 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpat | Spionidae | 8363 | | | 7/10/2013 | | Spiophanes duplex | | 4 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpat | Terebellidae | 8363 | | | 7/10/2013 | | Streblosoma crassibranchia | | 7 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpat | Terebellidae | 8363 | | | 7/10/2013 | | Streblosoma sp B | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |

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| Phylum | Class | Order | Family | StationID | SampleID | Replicate | SampleDate | SampleTime | Species | Qualifier | Abundance | Exclude | LabCode | SieveSize | SieveSizeUnits | Voucher | PersonalVoucher | AnalysisType | Taxonomic | Comments |
|----------|------------|---------------|------------------|-----------|----------|-----------|------------|------------|------------------------------|-----------|-----------|---------|---------|-----------|----------------|---------|-----------------|--------------|------------|------------------------------------|
| Annelida | Polychaeta | Canalipalpata | Cirratulidae | 8365 | | | 7/13/2013 | | Aphelocheata glandaria Cmplx | | 2 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpata | Cirratulidae | 8365 | | | 7/13/2013 | | Aphelocheata monilaris | | 7 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Aciculata | Polynoidae | 8365 | | | 7/13/2013 | | Arctobia cf anticostiensis | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpata | Cirratulidae | 8365 | | | 7/13/2013 | | Chaetozone corona | | 6 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpata | Cirratulidae | 8365 | | | 7/13/2013 | | Chaetozone hartmanae | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Unassigned | Cosauidae | 8365 | | | 7/13/2013 | | Cosaura sp A | | 23 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Aciculata | Onuphidae | 8365 | | | 7/13/2013 | | Diopatra tridentata | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Aciculata | Glyceridae | 8365 | | | 7/13/2013 | | Glycera americana | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Aciculata | Goniadidae | 8365 | | | 7/13/2013 | | Goniada maculata | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpata | Spionidae | 8365 | | | 7/13/2013 | | Laonice cirrata | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Unassigned | Orbinidae | 8365 | | | 7/13/2013 | | Leitoscoloplos sp A | | 10 | | DC | 1.0 | mm | | | initial | Lovell, L. | branchiae from set 11, 12, 13 |
| Annelida | Polychaeta | Aciculata | Lumbrineridae | 8365 | | | 7/13/2013 | | Lumbrineris cruzensis | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Aciculata | Polynoidae | 8365 | | | 7/13/2013 | | Malmgreniella sp | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Unassigned | Capitellidae | 8365 | | | 7/13/2013 | | Mediomastus sp | | 2 | N | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpata | Cirratulidae | 8365 | | | 7/13/2013 | | Monticollina stolina | | 23 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Aciculata | Onuphidae | 8365 | | | 7/13/2013 | | Paradiopatra parva | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpata | Ampharetidae | 8365 | | | 7/13/2013 | | Paramage scutata | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpata | Spionidae | 8365 | | | 7/13/2013 | | Paraprionospio alata | | 4 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Unassigned | Maldanidae | 8365 | | | 7/13/2013 | | Petaloclymene pacifica | | 3 | | DC | 1.0 | mm | | 3 | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpata | Flabelligeridae | 8365 | | | 7/13/2013 | | Pherusa neopapillata | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpata | Terebellidae | 8365 | | | 7/13/2013 | | Pista brevivibranchiata | | 18 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpata | Terebellidae | 8365 | | | 7/13/2013 | | Pista sp | | 1 | Y | DC | 1.0 | mm | | | initial | Lovell, L. | stain of P. sp Beta long branchiae |
| Annelida | Polychaeta | Canalipalpata | Terebellidae | 8365 | | | 7/13/2013 | | Pista wui | | 7 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpata | Serpulidae | 8365 | | | 7/13/2013 | | Protolaesopira eximia | | 2 | | DC | 1.0 | mm | | 2 | initial | Lovell, L. | no tubes |
| Annelida | Polychaeta | Aciculata | Lumbrineridae | 8365 | | | 7/13/2013 | | Scoletoma sp | | 2 | N | DC | 1.0 | mm | | | initial | Lovell, L. | ant frag |
| Annelida | Polychaeta | Canalipalpata | Spionidae | 8365 | | | 7/13/2013 | | Spiophanes berkeleyorum | | 2 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpata | Spionidae | 8365 | | | 7/13/2013 | | Spiophanes duplex | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Aciculata | Sigalionidae | 8365 | | | 7/13/2013 | | Sthenelanelia uniformis | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpata | Terebellidae | 8365 | | | 7/13/2013 | | Streblosoma sp B | | 13 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpata | Trichobranchidae | 8365 | | | 7/13/2013 | | Terebellides californica | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |

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| Phylum | Class | Order | Family | StationID | SampleID | Replicate | SampleDate | SampleTime | Species | Qualifier | Abundance | Exclude | LabCode | SieveSize | SieveSizeUnits | Voucher | PersonalVoucher | AnalysisType | Taxonomic | Comments |
|----------|------------|--------------|----------------|-----------|----------|-----------|------------|------------|--------------------------------|-----------|-----------|---------|---------|-----------|----------------|---------|-----------------|--------------|------------|----------|
| Annelida | Polychaeta | Unassigned | Cossuridae | 8367 | | | 7/11/2013 | | Cossura sp A | | 2 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpat | Sabellidae | 8367 | | | 7/11/2013 | | Euchone limnicola | | 21 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Unassigned | Maldanidae | 8367 | | | 7/11/2013 | | Eudymeninae sp A | | 3 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Aciculata | Syllidae | 8367 | | | 7/11/2013 | | Exogone lourei | | 1 | | DC | 1.0 | mm | | 1 | initial | Lovell, L. | |
| Annelida | Polychaeta | Aciculata | Goniadidae | 8367 | | | 7/11/2013 | | Goniada litorea | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Unassigned | Capitellidae | 8367 | | | 7/11/2013 | | Mediomastus sp | | 4 | N | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Aciculata | Nephtyidae | 8367 | | | 7/11/2013 | | Nephtys caecoides | | 4 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Unassigned | Capitellidae | 8367 | | | 7/11/2013 | | Notomastus hemipodus | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Unassigned | Capitellidae | 8367 | | | 7/11/2013 | | Notomastus sp | | 1 | Y | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpat | Pectinariidae | 8367 | | | 7/11/2013 | | Pectinaria californiensis | | 2 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Aciculata | Phyllodoceidae | 8367 | | | 7/11/2013 | | Phyllodoce hartmanae | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpat | Spionidae | 8367 | | | 7/11/2013 | | Pseudopolydora paucibranchiata | | 967 | | DC | 1.0 | mm | | 5 | initial | Lovell, L. | |
| Annelida | Polychaeta | Aciculata | Lumbrineridae | 8367 | | | 7/11/2013 | | Scoletoma sp | | 1 | N | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpat | Spionidae | 8367 | | | 7/11/2013 | | Spiophanes duplex | | 5 | | DC | 1.0 | mm | | | initial | Lovell, L. | |

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| Phylum | Class | Order | Family | StationID | SampleID | Replicate | SampleDate | SampleTime | Species | Qualifier | Abundance | Exclude | LabCode | SieveSize | SieveSizeUn | Voucher | PersonalVou | AnalysisTyp | Taxonomist | Comments |
|----------|------------|--------------|----------------|-----------|----------|-----------|------------|------------|---------------------------------|-----------|-----------|---------|---------|-----------|-------------|---------|-------------|-------------|------------|--|
| Annelida | Polychaeta | Aciculata | Pilargidae | 8371 | | | 7/10/2013 | | Ancistrostylis hamata | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Canalipalpat | Cirratulidae | 8371 | | | 7/10/2013 | | Aphelochaeta glandata Cmplx | | 3 | | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Canalipalpat | Cirratulidae | 8371 | | | 7/10/2013 | | Aphelochaeta monilata | | 6 | | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Aciculata | Polynoidea | 8371 | | | 7/10/2013 | | Arctobia cf anticosiensis | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L | may be juv of Malmgreniella maccintiei |
| Annelida | Polychaeta | Unassigned | Cossuridae | 8371 | | | 7/10/2013 | | Cossura candida | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Unassigned | Cossuridae | 8371 | | | 7/10/2013 | | Cossura sp A | | 25 | | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Aciculata | Onuphidae | 8371 | | | 7/10/2013 | | Diopatra tridentata | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Canalipalpat | Sabellidae | 8371 | | | 7/10/2013 | | Euchone limnicola | | 5 | | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Aciculata | Glyceridae | 8371 | | | 7/10/2013 | | Glycera americana | | 3 | | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Canalipalpat | Spionidae | 8371 | | | 7/10/2013 | | Laonice cirrata | | 3 | | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Unassigned | Orbinidae | 8371 | | | 7/10/2013 | | Letosclopius sp A | | 4 | | DC | 1.0 | mm | | | initial | Lovell, L | branchiae set 12, 13 |
| Annelida | Polychaeta | Aciculata | Polynoidea | 8371 | | | 7/10/2013 | | Malmgreniella maccintiei | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Aciculata | Eunicidae | 8371 | | | 7/10/2013 | | Marphysa disjuncta | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Unassigned | Capitellidae | 8371 | | | 7/10/2013 | | Mediomastus sp | N | 1 | | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Unassigned | Maldanidae | 8371 | | | 7/10/2013 | | Metesychis disparidentatus | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Canalipalpat | Cirratulidae | 8371 | | | 7/10/2013 | | Monticollina cryptica | | 2 | | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Canalipalpat | Cirratulidae | 8371 | | | 7/10/2013 | | Monticollina sibilina | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Aciculata | Nereididae | 8371 | | | 7/10/2013 | | Nereis sp A | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Unassigned | Capitellidae | 8371 | | | 7/10/2013 | | Notomastus hemipodus | | 4 | | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Canalipalpat | Spionidae | 8371 | | | 7/10/2013 | | Paraprionospio alata | | 4 | | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Canalipalpat | Pectinariidae | 8371 | | | 7/10/2013 | | Pectinaria californiensis | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Unassigned | Maldanidae | 8371 | | | 7/10/2013 | | Petalocymene pacifica | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Canalipalpat | Terebellidae | 8371 | | | 7/10/2013 | | Pista wui | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Aciculata | Hesionidae | 8371 | | | 7/10/2013 | | Podockeopsis sp A | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Canalipalpat | Chaetopteridae | 8371 | | | 7/10/2013 | | Spiochaetopterus costarum Cmplx | | 2 | | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Canalipalpat | Spionidae | 8371 | | | 7/10/2013 | | Spiophanes berkeleyorum | | 2 | | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Canalipalpat | Spionidae | 8371 | | | 7/10/2013 | | Spiophanes duplex | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Canalipalpat | Terebellidae | 8371 | | | 7/10/2013 | | Streblosoma crassibranchia | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Canalipalpat | Terebellidae | 8371 | | | 7/10/2013 | | Streblosoma sp B | | 4 | | DC | 1.0 | mm | | | initial | Lovell, L | |

| Phylum | Class | Order | Family | StationID | SampleID | Replicate | SampleDate | SampleTime | Species | Qualifier | Abundance | Exclude | LabCode | SieveSize | SieveSizeUn | Voucher | PersonalVou | AnalysisTyp | Taxonomist | Comments |
|----------|------------|--------------|------------------|-----------|----------|-----------|------------|------------|---------------------------------------|-----------|-----------|---------|---------|-----------|-------------|---------|-------------|-------------|------------|---|
| Annelida | Polychaeta | Canalipalpat | Ampharetidae | 8374 | | | 7/10/2013 | | Ampharetidae | | 1 | Y | DC | 1.0 | mm | | | initial | Lovell, L. | juv |
| Annelida | Polychaeta | Canalipalpat | Ampharetidae | 8374 | | | 7/10/2013 | | Amphiteis scaphobranchiata | | 4 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpat | Cirratulidae | 8374 | | | 7/10/2013 | | Aphelocheata monilaris | | 5 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Unassigned | Cossuridae | 8374 | | | 7/10/2013 | | Cossura sp A | | 6 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Unassigned | Maldanidae | 8374 | | | 7/10/2013 | | Eucyumeninae | | 2 | Y | DC | 1.0 | mm | | | initial | Lovell, L. | ant frags |
| Annelida | Polychaeta | Canalipalpat | Spionidae | 8374 | | | 7/10/2013 | | Laonice cirrata | | 8 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Unassigned | Orbiniidae | 8374 | | | 7/10/2013 | | Leitoscoloplos sp A | | 2 | | DC | 1.0 | mm | | | initial | Lovell, L. | branchiae set 12 |
| Annelida | Polychaeta | Unassigned | Maldanidae | 8374 | | | 7/10/2013 | | Maldane sarsi | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Aciculata | Polynoidae | 8374 | | | 7/10/2013 | | Malmgreniella macginitiei | | 2 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpat | Sabellidae | 8374 | | | 7/10/2013 | | Megalomma sp | | 1 | N | DC | 1.0 | mm | | | initial | Lovell, L. | juv |
| Annelida | Polychaeta | Aciculata | Lumbrineridae | 8374 | | | 7/10/2013 | | Ninoe tridentata | | 3 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpat | Ampharetidae | 8374 | | | 7/10/2013 | | Paramage scutata | | 6 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Aciculata | Pilargidae | 8374 | | | 7/10/2013 | | Parandalia fauveli | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Unassigned | Maldanidae | 8374 | | | 7/10/2013 | | Petalocymene pacifica | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpat | Terebellidae | 8374 | | | 7/10/2013 | | Pista brevirbranchiata | | 9 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpat | Terebellidae | 8374 | | | 7/10/2013 | | Pista wu | | 19 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpat | Poecilochaetidae | 8374 | | | 7/10/2013 | | Poecilochaetus martini | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpat | Spionidae | 8374 | | | 7/10/2013 | | Prionospio (Minuspio) multibranchiata | | 2 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpat | Spionidae | 8374 | | | 7/10/2013 | | Prionospio (Prionospio) jubata | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Aciculata | Lumbrineridae | 8374 | | | 7/10/2013 | | Scoletoma sp B | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpat | Serpulidae | 8374 | | | 7/10/2013 | | Serpulidae | | 2 | N | DC | 1.0 | mm | | | initial | Lovell, L. | unidable, operc funnel. Or double? missing distal? . Serpula? |
| Annelida | Polychaeta | Aciculata | Pilargidae | 8374 | | | 7/10/2013 | | Siogabra setosa | | 1 | | DC | 1.0 | mm | | 1 | initial | Lovell, L. | complete |
| Annelida | Polychaeta | Canalipalpat | Spionidae | 8374 | | | 7/10/2013 | | Spiophanes berkeleyorum | | 4 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpat | Terebellidae | 8374 | | | 7/10/2013 | | Streptosoma sp B | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Aciculata | Polynoidae | 8374 | | | 7/10/2013 | | Tenonia priops | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |

| Phylum | Class | Order | Family | StationID | SampleID | Replicate | SampleDate | SampleTime | Species | Qualifier | Abundance | Exclude | LabCode | SieveSize | SieveSizeUn | Voucher | PersonalVou | AnalysisType | Taxonomist | Comments |
|----------|-------------|---------------|------------------|-----------|----------|-----------|------------|------------|---------------------------------------|-----------|-----------|---------|---------|-----------|-------------|---------|-------------|--------------|------------|--------------------------|
| Annelida | Polychaeta | Canalipalpata | Ampharetidae | 8382 | | | 7/10/2013 | | Amphitelis scaphobranchiata | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Canalipalpata | Cirratulidae | 8382 | | | 7/10/2013 | | Aphelochaeta monilans | | 2 | | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Canalipalpata | Cirratulidae | 8382 | | | 7/10/2013 | | Aphelochaeta petersenae | | 1 | | DC | 1.0 | mm | | 1 | initial | Lovell, L | |
| Annelida | Polychaeta | Canalipalpata | Cirratulidae | 8382 | | | 7/10/2013 | | Aphelochaeta sp | | 4 | Y | DC | 1.0 | mm | | | initial | Lovell, L | juvs |
| Annelida | Polychaeta | Unassigned | Paraonidae | 8382 | | | 7/10/2013 | | Aricidea (Acmira) catherinae | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Aciculata | Nephtyidae | 8382 | | | 7/10/2013 | | Bipalponephyts cornuta | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Unassigned | Capitellidae | 8382 | | | 7/10/2013 | | Cossura candida | | 3 | | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Unassigned | Capitellidae | 8382 | | | 7/10/2013 | | Cossura sp | | 3 | Y | DC | 1.0 | mm | | | initial | Lovell, L | juv |
| Annelida | Polychaeta | Unassigned | Cossuridae | 8382 | | | 7/10/2013 | | Cossura sp A | | 235 | | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Aciculata | Syllidae | 8382 | | | 7/10/2013 | | Exogone lourei | | 2 | | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Aciculata | Glyceridae | 8382 | | | 7/10/2013 | | Glycera americana | | 2 | | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Canalipalpata | Spionidae | 8382 | | | 7/10/2013 | | Laonice cirratu | | 3 | | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Unassigned | Orbinidae | 8382 | | | 7/10/2013 | | Letoscoloplos sp A | | 3 | | DC | 1.0 | mm | | | initial | Lovell, L | branchiae set 11, 12, 13 |
| Annelida | Polychaeta | Canalipalpata | Ampharetidae | 8382 | | | 7/10/2013 | | Lysippe sp A | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Aciculata | Polynoidae | 8382 | | | 7/10/2013 | | Malmgreniella macginitiei | | 6 | | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Unassigned | Capitellidae | 8382 | | | 7/10/2013 | | Mediomastus sp | | 14 | N | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Canalipalpata | Ampharetidae | 8382 | | | 7/10/2013 | | Melinna oculata | | 2 | | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Canalipalpata | Cirratulidae | 8382 | | | 7/10/2013 | | Monticelina sibilina | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Canalipalpata | Cirratulidae | 8382 | | | 7/10/2013 | | Monticelina cryptica | | 11 | | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Oligochaeta | | | 8382 | | | 7/10/2013 | | Oligochaeta | | 5 | | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Canalipalpata | Spionidae | 8382 | | | 7/10/2013 | | Paraprionospio alata | | 2 | | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Canalipalpata | Pectinariidae | 8382 | | | 7/10/2013 | | Pectinaria californiensis | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Canalipalpata | Flabelligeridae | 8382 | | | 7/10/2013 | | Pherusa neopapillata | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Canalipalpata | Terebellidae | 8382 | | | 7/10/2013 | | Pista breviranchia | | 2 | | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Canalipalpata | Terebellidae | 8382 | | | 7/10/2013 | | Pista wui | | 4 | | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Canalipalpata | Poecilochaetidae | 8382 | | | 7/10/2013 | | Poecilochaetus martini | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Canalipalpata | Spionidae | 8382 | | | 7/10/2013 | | Prionospio (Minuspio) multibranchiata | | 3 | | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Canalipalpata | Spionidae | 8382 | | | 7/10/2013 | | Prionospio (Prionospio) jubata | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Aciculata | Lumbrineridae | 8382 | | | 7/10/2013 | | Scototoma sp B | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Canalipalpata | Terebellidae | 8382 | | | 7/10/2013 | | Streblosoma sp B | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L | |

POLA/POLB Bight '13
Benthic Infauna

DRAFT DATA

| Phylum | Class | Order | Family | StationID | SampleID | Replicate | SampleDate | SampleTime | Species | Qualifier | Abundance | Exclude | LabCode | SieveSize | SieveSizeUn | Voucher | PersonalVou | AnalysisTyp | Taxonomist | Comments |
|----------|------------|---------------|---------------|-----------|----------|-----------|------------|------------|---------------------------------------|-----------|-----------|---------|---------|-----------|-------------|---------|-------------|-------------|------------|---------------------|
| Annelida | Polychaeta | Canalipalpata | Ampharetidae | 8384 | | | 7/12/2013 | | Ampharete labrops | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Canalipalpata | Ampharetidae | 8384 | | | 7/12/2013 | | Amphicteis scaphobranchiata | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Canalipalpata | Cirratulidae | 8384 | | | 7/12/2013 | | Aphelochaeta monliaris | | 2 | | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Unassigned | Capitellidae | 8384 | | | 7/12/2013 | | Cossura sp | | 3 | Y | DC | 1.0 | mm | | | initial | Lovell, L | juvs |
| Annelida | Polychaeta | Unassigned | Cossuridae | 8384 | | | 7/12/2013 | | Cossura sp A | | 13 | | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Canalipalpata | Sabellidae | 8384 | | | 7/12/2013 | | Euchone limnicola | | 10 | | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Aciculata | Glyceridae | 8384 | | | 7/12/2013 | | Glyceria americana | | 2 | | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Unassigned | Orbinidae | 8384 | | | 7/12/2013 | | Leitoscoloplos sp A | | 2 | | DC | 1.0 | mm | | | initial | Lovell, L | branchiae set 12,13 |
| Annelida | Polychaeta | Aciculata | Polynoidae | 8384 | | | 7/12/2013 | | Malmgreniella macginitiei | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Unassigned | Capitellidae | 8384 | | | 7/12/2013 | | Mediomastus sp | | 4 | N | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Canalipalpata | Cirratulidae | 8384 | | | 7/12/2013 | | Monticellina sibilina | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Aciculata | Lumbrineridae | 8384 | | | 7/12/2013 | | Ninoe tridentata | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Canalipalpata | Ampharetidae | 8384 | | | 7/12/2013 | | Paramage scutata | | 5 | | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Canalipalpata | Spionidae | 8384 | | | 7/12/2013 | | Parapionospio alata | | 2 | | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Canalipalpata | Terebellidae | 8384 | | | 7/12/2013 | | Pista brevirbranchiata | | 4 | | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Canalipalpata | Terebellidae | 8384 | | | 7/12/2013 | | Pista wu | | 6 | | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Aciculata | Hesionidae | 8384 | | | 7/12/2013 | | Podarkeopsis sp | | 1 | N | DC | 1.0 | mm | | | initial | Lovell, L | gravid |
| Annelida | Polychaeta | Canalipalpata | Spionidae | 8384 | | | 7/12/2013 | | Prionospio (Minuspio) multibranchiata | | 2 | | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Aciculata | Lumbrineridae | 8384 | | | 7/12/2013 | | Scoletoma sp | | 1 | Y | DC | 1.0 | mm | | | initial | Lovell, L | and frag |
| Annelida | Polychaeta | Aciculata | Lumbrineridae | 8384 | | | 7/12/2013 | | Scoletoma sp A | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Aciculata | Ptargiidae | 8384 | | | 7/12/2013 | | Sagambra setosa | | 4 | | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Canalipalpata | Spionidae | 8384 | | | 7/12/2013 | | Spiophanes berkeleyorum | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Canalipalpata | Terebellidae | 8384 | | | 7/12/2013 | | Streptosoma crassibranchia | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Canalipalpata | Terebellidae | 8384 | | | 7/12/2013 | | Streptosoma sp | | 2 | Y | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Canalipalpata | Terebellidae | 8384 | | | 7/12/2013 | | Streptosoma sp B | | 15 | | DC | 1.0 | mm | | | initial | Lovell, L | |

| Phylum | Class | Order | Family | StationID | SampleID | Replicate | SampleDate | SampleTime | Species | Qualifier | Abundance | Exclude | LabCode | SieveSize | SieveSizeUnits | Voucher | PersonalVoucher | AnalysisType | Taxonomist | Comments |
|----------|------------|--------------|-----------------|-----------|----------|-----------|------------|------------|--|-----------|-----------|---------|---------|-----------|----------------|---------|-----------------|--------------|------------|--------------------------|
| Annelida | Polychaeta | Canalipalpat | Cirratulidae | 8396 | | | 7/12/2013 | | Aphelochaeta monilaris | | 18 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpat | Cirratulidae | 8396 | | | 7/12/2013 | | Aphelochaeta sp | Y | 7 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Unassigned | Capitellidae | 8396 | | | 7/12/2013 | | Capitalla capitata Cmpplx | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpat | Cirratulidae | 8396 | | | 7/12/2013 | | Chaetozone corona | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpat | Cirratulidae | 8396 | | | 7/12/2013 | | Cirratulidae | Y | 2 | | DC | 1.0 | mm | | | initial | Lovell, L. | Juvs |
| Annelida | Polychaeta | Unassigned | Cossuridae | 8396 | | | 7/12/2013 | | Cossura sp | Y | 6 | | DC | 1.0 | mm | | | initial | Lovell, L. | juvs, no stain |
| Annelida | Polychaeta | Unassigned | Cossuridae | 8396 | | | 7/12/2013 | | Cossura sp A | | 120 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Aciculata | Dorvilleidae | 8396 | | | 7/12/2013 | | Dorvillea (Schistomerings) longicornis | | 1 | | DC | 1.0 | mm | | 1 | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpat | Sabellidae | 8396 | | | 7/12/2013 | | Euchone limnicola | | 11 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Aciculata | Eunicidae | 8396 | | | 7/12/2013 | | Eunicidae | Y | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | juv |
| Annelida | Polychaeta | Aciculata | Syllidae | 8396 | | | 7/12/2013 | | Exogone lourei | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Aciculata | Glyceridae | 8396 | | | 7/12/2013 | | Glycera americana | | 2 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Aciculata | Goniadidae | 8396 | | | 7/12/2013 | | Glycera nana | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Aciculata | Polynoidae | 8396 | | | 7/12/2013 | | Harmothoe hirsuta | | 2 | | DC | 1.0 | mm | | 1 | initial | Lovell, L. | |
| Annelida | Polychaeta | Unassigned | Orbinidae | 8396 | | | 7/12/2013 | | Letoscoloplos sp A | | 4 | | DC | 1.0 | mm | | | initial | Lovell, L. | branchiae set 11, 12, 13 |
| Annelida | Polychaeta | Unassigned | Paraonidae | 8396 | | | 7/12/2013 | | Levinsenia gracilis | Y | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Aciculata | Lumbrineridae | 8396 | | | 7/12/2013 | | Lumbrineridae | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | juv |
| Annelida | Polychaeta | Aciculata | Polynoidae | 8396 | | | 7/12/2013 | | Malmgreniella macginitiei | | 2 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Aciculata | Eunicidae | 8396 | | | 7/12/2013 | | Marphysa disjuncta | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Unassigned | Capitellidae | 8396 | | | 7/12/2013 | | Mediomastus sp | N | 3 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpat | Ampharetidae | 8396 | | | 7/12/2013 | | Melina oculata | | 4 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpat | Cirratulidae | 8396 | | | 7/12/2013 | | Monticellina sibina | | 2 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpat | Ampharetidae | 8396 | | | 7/12/2013 | | Paramage scutata | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Aciculata | Pilargidae | 8396 | | | 7/12/2013 | | Parandalia fauveli | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpat | Spionidae | 8396 | | | 7/12/2013 | | Paraprionospio alata | | 4 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpat | Flabelligeridae | 8396 | | | 7/12/2013 | | Pherusa neopapillata | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Aciculata | Phyllodocidae | 8396 | | | 7/12/2013 | | Phyllodoce pettiboneae | | 1 | | DC | 1.0 | mm | | 1 | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpat | Terebellidae | 8396 | | | 7/12/2013 | | Pista brevibranchiata | | 8 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpat | Terebellidae | 8396 | | | 7/12/2013 | | Pista wui | | 25 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpat | Spionidae | 8396 | | | 7/12/2013 | | Prionospio (Prionospio) jubata | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Aciculata | Lumbrineridae | 8396 | | | 7/12/2013 | | Scoletoma sp | Y | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | ant frag |
| Annelida | Polychaeta | Aciculata | Pilargidae | 8396 | | | 7/12/2013 | | Sigambra setosa | | 9 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpat | Spionidae | 8396 | | | 7/12/2013 | | Spiophanes berkeleyorum | | 9 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpat | Terebellidae | 8396 | | | 7/12/2013 | | Streblosoma sp B | | 12 | | DC | 1.0 | mm | | | initial | Lovell, L. | |

POLA/POLB Bight '13
Benthic Infauna

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| Phylum | Class | Order | Family | StationID | SampleID | Replicate | SampleDate | SampleTime | Species | Qualifier | Abundance | Exclude | LabCode | SieveSize | SieveSizeUn | Voucher | PersonalVou | AnalysisTyp | Taxonomist | Comments |
|----------|-------------|--------------|---------------|-----------|----------|-----------|------------|------------|---|-----------|-----------|---------|---------|-----------|-------------|---------|-------------|-------------|------------|--|
| Annelida | Polychaeta | Canalipalpat | Cirratulidae | 8397 | | | 7/12/2013 | | Aphelochaeta sp | | 1 | N | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Canalipalpat | Spionidae | 8397 | | | 7/12/2013 | | Boccardiella hamata | | 2 | | DC | 1.0 | mm | | 1 | initial | Lovell, L | 1 w/o post |
| Annelida | Polychaeta | Unassigned | Capitellidae | 8397 | | | 7/12/2013 | | Capitella capitata Cmplx | | 8 | | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Canalipalpat | Cirratulidae | 8397 | | | 7/12/2013 | | Chaetozone hedgpathi | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Canalipalpat | Cirratulidae | 8397 | | | 7/12/2013 | | Cirratulidae | | 1 | Y | DC | 1.0 | mm | | | initial | Lovell, L | juv |
| Annelida | Polychaeta | Unassigned | Cossuridae | 8397 | | | 7/12/2013 | | Cossura sp | | 3 | Y | DC | 1.0 | mm | | | initial | Lovell, L | juvs |
| Annelida | Polychaeta | Unassigned | Cossuridae | 8397 | | | 7/12/2013 | | Cossura sp A | | 50 | | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Aciculata | Dorvilleidae | 8397 | | | 7/12/2013 | | Dorvillea (Schistomeringos) longicornis | | 2 | | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Aciculata | Lumbrineridae | 8397 | | | 7/12/2013 | | Eranno sp | | 2 | | DC | 1.0 | mm | | | initial | Lovell, L | large ant frag, simple hooks, MII w/ligament |
| Annelida | Polychaeta | Canalipalpat | Sabellidae | 8397 | | | 7/12/2013 | | Euchone limnicola | | 15 | | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Aciculata | Syllidae | 8397 | | | 7/12/2013 | | Exogone lourei | | 69 | | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Aciculata | Lumbrineridae | 8397 | | | 7/12/2013 | | Lumbrineris limicola | | 1 | | DC | 1.0 | mm | | 1 | initial | Lovell, L | |
| Annelida | Polychaeta | Unassigned | Capitellidae | 8397 | | | 7/12/2013 | | Mediomastus sp | | 12 | Y | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Unassigned | Capitellidae | 8397 | | | 7/12/2013 | | Mediomastus sp 6 | | 1 | | DC | 1.0 | mm | | 1 | initial | Lovell, L | Harris 2001 |
| Annelida | Polychaeta | Canalipalpat | Sabellidae | 8397 | | | 7/12/2013 | | Megalomma pigmentum | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L | juv |
| Annelida | Oligochaeta | | | 8397 | | | 7/12/2013 | | Oligochaeta | | 164 | | DC | 1.0 | mm | | | initial | Lovell, L | poorly sorted sample |
| Annelida | Polychaeta | Canalipalpat | Terebellidae | 8397 | | | 7/12/2013 | | Pista brevibranchiata | | 2 | | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Aciculata | Nereididae | 8397 | | | 7/12/2013 | | Platynereis bicanaliculata | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Canalipalpat | Spionidae | 8397 | | | 7/12/2013 | | Prionospio (Prionospio) heterobranchia | | 6 | | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Canalipalpat | Spionidae | 8397 | | | 7/12/2013 | | Pseudopolydora paucibranchiata | | 112 | | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Unassigned | Capitellidae | 8397 | | | 7/12/2013 | | Syphoproctus oculatus | | 4 | | DC | 1.0 | mm | | 3 | initial | Lovell, L | |
| Annelida | Polychaeta | Aciculata | Syllidae | 8397 | | | 7/12/2013 | | Sphaerosyllis californiensis | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Canalipalpat | Spionidae | 8397 | | | 7/12/2013 | | Spiophanes duplex | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Canalipalpat | Cirratulidae | 8397 | | | 7/12/2013 | | Timarete luxuriosa | | 1 | | DC | 1.0 | mm | | 1 | initial | Lovell, L | |
| Annelida | Polychaeta | Aciculata | Syllidae | 8397 | | | 7/12/2013 | | Typosyllis nipponica | | 1 | | DC | 1.0 | mm | | 1 | initial | Lovell, L | |

| Phylum | Class | Order | Family | StationID | SampleID | Replicate | SampleDate | SampleTime | Species | Qualifier | Abundance | Exclude | LabCode | SieveSize | SieveSizeUn | Voucher | PersonalVou | AnalysisTyp | Taxonomist | Comments |
|----------|------------|--------------|------------------|-----------|----------|-----------|------------|------------|--------------------------------|-----------|-----------|---------|---------|-----------|-------------|---------|-------------|-------------|------------|----------------------------|
| Annelida | Polychaeta | Canalipalpat | Ampharetidae | 8399 | | | 7/12/2013 | | Ampharete labrops | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Canalipalpat | Ampharetidae | 8399 | | | 7/12/2013 | | Ampheteis scaphobranchiata | | 2 | | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Canalipalpat | Cirratulidae | 8399 | | | 7/12/2013 | | Aphelochaeta moniliaris | | 5 | | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Canalipalpat | Cirratulidae | 8399 | | | 7/12/2013 | | Aphelochaeta sp | | 2 | Y | DC | 1.0 | mm | | | initial | Lovell, L | ant frags, no stain |
| Annelida | Polychaeta | Unassigned | Cossuridae | 8399 | | | 7/12/2013 | | Cossura candida | | 11 | | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Unassigned | Cossuridae | 8399 | | | 7/12/2013 | | Cossura sp | | 2 | Y | DC | 1.0 | mm | | | initial | Lovell, L | juvs |
| Annelida | Polychaeta | Unassigned | Cossuridae | 8399 | | | 7/12/2013 | | Cossura sp A | | 14 | | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Aciculata | Onuphidae | 8399 | | | 7/12/2013 | | Dopatra tridentata | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Canalipalpat | Sabellidae | 8399 | | | 7/12/2013 | | Euchone limnicola | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Aciculata | Glyceridae | 8399 | | | 7/12/2013 | | Glycera americana | | 3 | | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Canalipalpat | Spionidae | 8399 | | | 7/12/2013 | | Laonice cirrata | | 4 | | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Unassigned | Orbiniidae | 8399 | | | 7/12/2013 | | Leitoscoloplos sp A | | 2 | | DC | 1.0 | mm | | | initial | Lovell, L | small, branchiae set 10,11 |
| Annelida | Polychaeta | Aciculata | Lumbrineridae | 8399 | | | 7/12/2013 | | Lumbrineris japonica | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Unassigned | Capitellidae | 8399 | | | 7/12/2013 | | Mediomastus sp | | 13 | N | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Canalipalpat | Cirratulidae | 8399 | | | 7/12/2013 | | Monticellina cryptica | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Canalipalpat | Cirratulidae | 8399 | | | 7/12/2013 | | Monticellina sibilina | | 3 | | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Aciculata | Lumbrineridae | 8399 | | | 7/12/2013 | | Nanoë tridentata | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Canalipalpat | Ampharetidae | 8399 | | | 7/12/2013 | | Paramage scutata | | 2 | | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Canalipalpat | Spionidae | 8399 | | | 7/12/2013 | | Paraprionospio alata | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Canalipalpat | Pectinariidae | 8399 | | | 7/12/2013 | | Pectinaria californiensis | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Canalipalpat | Terrellidae | 8399 | | | 7/12/2013 | | Pista wu | | 4 | | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Canalipalpat | Spionidae | 8399 | | | 7/12/2013 | | Prionospio (Prionospio) jubata | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Unassigned | Scalibregmatidae | 8399 | | | 7/12/2013 | | Scalibregma californicum | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Aciculata | Pilargidae | 8399 | | | 7/12/2013 | | Sigambra setosa | | 4 | | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Canalipalpat | Spionidae | 8399 | | | 7/12/2013 | | Spiophanes berkeleyorum | | 4 | | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Canalipalpat | Terrellidae | 8399 | | | 7/12/2013 | | Sireblosoma sp B | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L | |

| Phylum | Class | Order | Family | StationID | SampleID | Replicate | SampleDate | SampleTime | Species | Qualifier | Abundance | Exclude | LabCode | SieveSize | SieveSizeUnits | Voucher | PersonalVoucher | AnalysisType | Taxonomist | Comments |
|----------|------------|--------------|------------------|-----------|----------|-----------|------------|------------|--------------------------------------|-----------|-----------|---------|---------|-----------|----------------|---------|-----------------|--------------|------------|---------------------|
| Annelida | Polychaeta | Canalipalpat | Cirratulidae | 8401 | | | 7/12/2013 | | Aphelocheata glandaria Cmpx | | 4 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpat | Cirratulidae | 8401 | | | 7/12/2013 | | Aphelocheata monilaris | | 25 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpat | Cirratulidae | 8401 | | | 7/12/2013 | | Aphelocheata petersenae | | 124 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpat | Cirratulidae | 8401 | | | 7/12/2013 | | Aphelocheata sp | | 8 | Y | DC | 1.0 | mm | | | initial | Lovell, L. | juvs |
| Annelida | Polychaeta | Aciculata | Nephtyidae | 8401 | | | 7/12/2013 | | Bipalponephyts cornuta | | 3 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpat | Cirratulidae | 8401 | | | 7/12/2013 | | Chaetozone corona | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpat | Cirratulidae | 8401 | | | 7/12/2013 | | Cirratulidae | | 6 | Y | DC | 1.0 | mm | | | initial | Lovell, L. | juvs |
| Annelida | Polychaeta | Unassigned | Cossuridae | 8401 | | | 7/12/2013 | | Cossura candida | | 5 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Unassigned | Cossuridae | 8401 | | | 7/12/2013 | | Cossura sp | | 21 | Y | DC | 1.0 | mm | | | initial | Lovell, L. | juv |
| Annelida | Polychaeta | Unassigned | Cossuridae | 8401 | | | 7/12/2013 | | Cossura sp A | | 211 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Aciculata | Oeonidae | 8401 | | | 7/12/2013 | | Drlonereis sp | | 1 | N | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpat | Sabellidae | 8401 | | | 7/12/2013 | | Euchone limricola | | 30 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Aciculata | Syllidae | 8401 | | | 7/12/2013 | | Exogone lourei | | 3 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpat | Spionidae | 8401 | | | 7/12/2013 | | Laonice cirrata | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Unassigned | Orbiniidae | 8401 | | | 7/12/2013 | | Laitoscoloplos sp A | | 5 | | DC | 1.0 | mm | | | initial | Lovell, L. | branchiae set 12,13 |
| Annelida | Polychaeta | Aciculata | Lumbrineridae | 8401 | | | 7/12/2013 | | Lumbrineris japonica | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Aciculata | Polynoidae | 8401 | | | 7/12/2013 | | Malmgreniella macginitiei | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Aciculata | Eunicidae | 8401 | | | 7/12/2013 | | Marphysa disjuncta | | 4 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Unassigned | Capitellidae | 8401 | | | 7/12/2013 | | Mediomastus sp | | 18 | N | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpat | Ampharetidae | 8401 | | | 7/12/2013 | | Melinia oculata | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpat | Cirratulidae | 8401 | | | 7/12/2013 | | Monticellina cryptica | | 10 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpat | Cirratulidae | 8401 | | | 7/12/2013 | | Monticellina sibilina | | 18 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpat | Ampharetidae | 8401 | | | 7/12/2013 | | Paramage scutata | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpat | Spionidae | 8401 | | | 7/12/2013 | | Paraprionospio alata | | 4 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpat | Pectinariidae | 8401 | | | 7/12/2013 | | Pectinaria californiensis | | 2 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpat | Terebellidae | 8401 | | | 7/12/2013 | | Pista wul | | 4 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpat | Poecilochaetidae | 8401 | | | 7/12/2013 | | Poecilochaetus martini | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpat | Spionidae | 8401 | | | 7/12/2013 | | Pronospio (Minuspio) multibranchiata | | 2 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpat | Spionidae | 8401 | | | 7/12/2013 | | Pseudopolydora paucibranchiata | | 24 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpat | Sabellidae | 8401 | | | 7/12/2013 | | Sabellidae | | 1 | N | DC | 1.0 | mm | | | initial | Lovell, L. | not Euchone |
| Annelida | Polychaeta | Canalipalpat | Sabellidae | 8401 | | | 7/12/2013 | | Sabellidae | | 1 | N | DC | 1.0 | mm | | | initial | Lovell, L. | juv |
| Annelida | Polychaeta | Aciculata | Lumbrineridae | 8401 | | | 7/12/2013 | | Scoletoma sp | | 12 | N | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Aciculata | Lumbrineridae | 8401 | | | 7/12/2013 | | Scoletoma sp C | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpat | Serpulidae | 8401 | | | 7/12/2013 | | Serpulidae | | 1 | N | DC | 1.0 | mm | | | initial | Lovell, L. | juv, damaged |
| Annelida | Polychaeta | Aciculata | Pilargidae | 8401 | | | 7/12/2013 | | Sigambra setosa | | 3 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpat | Spionidae | 8401 | | | 7/12/2013 | | Spiophanes berkeleyorum | | 3 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpat | Spionidae | 8401 | | | 7/12/2013 | | Spiophanes duplex | | 4 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpat | Terebellidae | 8401 | | | 7/12/2013 | | Streblosoma crassibranchia | | 3 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpat | Terebellidae | 8401 | | | 7/12/2013 | | Streblosoma sp B | | 4 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Aciculata | Syllidae | 8401 | | | 7/12/2013 | | Typosyllis nipponica | | 2 | | DC | 1.0 | mm | | | initial | Lovell, L. | |

| Phylum | Class | Order | Family | StationID | SampleID | Replicate | SampleDate | SampleTime | Species | Qualifier | Abundance | Exclude | LabCode | SieveSize | SieveSizeUn | Voucher | PersonalVou | AnalysisTyp | Taxonomist | Comments |
|----------|------------|--------------|---------------|-----------|----------|-----------|------------|------------|---------------------------------------|-----------|-----------|---------|---------|-----------|-------------|---------|-------------|-------------|------------|----------|
| Annelida | Polychaeta | Canalipalpat | Cirratulidae | TMDL1-CH | | | 7/11/2013 | | Aphelochaeta monilaris | | 25 | | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Aciculata | Nephtyidae | TMDL1-CH | | | 7/11/2013 | | Bipalponephtys cornuta | | 2 | | DC | 1.0 | mm | | 1 | initial | Lovell, L | |
| Annelida | Polychaeta | Unassigned | Cossuridae | TMDL1-CH | | | 7/11/2013 | | Cossura candida | | 5 | | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Unassigned | Cossuridae | TMDL1-CH | | | 7/11/2013 | | Cossura sp | Y | 11 | | DC | 1.0 | mm | | | initial | Lovell, L | juvs |
| Annelida | Polychaeta | Unassigned | Cossuridae | TMDL1-CH | | | 7/11/2013 | | Cossura sp A | | 69 | | DC | 1.0 | mm | | 2 | initial | Lovell, L | |
| Annelida | Polychaeta | Canalipalpat | Sabellidae | TMDL1-CH | | | 7/11/2013 | | Euchone limnicola | | 26 | | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Aciculata | Glyceridae | TMDL1-CH | | | 7/11/2013 | | Glycera americana | | 2 | | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Aciculata | Hesionidae | TMDL1-CH | | | 7/11/2013 | | Gyptis brunnea | | 2 | | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Aciculata | Lumbrineridae | TMDL1-CH | | | 7/11/2013 | | Lumbrineris sp E | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Aciculata | Polynoidea | TMDL1-CH | | | 7/11/2013 | | Malmgreniella macginitiei | | 2 | | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Aciculata | Eunicidae | TMDL1-CH | | | 7/11/2013 | | Malphysa disjuncta | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Unassigned | Capitellidae | TMDL1-CH | | | 7/11/2013 | | Mediomastus sp | N | 3 | | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Canalipalpat | Cirratulidae | TMDL1-CH | | | 7/11/2013 | | Monticellina sibilina | | 4 | | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Canalipalpat | Ampharetidae | TMDL1-CH | | | 7/11/2013 | | Paramige scutata | | 5 | | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Canalipalpat | Spionidae | TMDL1-CH | | | 7/11/2013 | | Paraprionospio alata | | 2 | | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Canalipalpat | Terebellidae | TMDL1-CH | | | 7/11/2013 | | Pista brevibranchiata | | 4 | | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Canalipalpat | Terebellidae | TMDL1-CH | | | 7/11/2013 | | Pista wai | | 10 | | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Canalipalpat | Spionidae | TMDL1-CH | | | 7/11/2013 | | Prionospio (Minuspio) multibranchiata | | 2 | | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Canalipalpat | Spionidae | TMDL1-CH | | | 7/11/2013 | | Pseudopolydora paucibranchiata | | 13 | | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Canalipalpat | Terebellidae | TMDL1-CH | | | 7/11/2013 | | Streblosoma sp B | | 3 | | DC | 1.0 | mm | | | initial | Lovell, L | |

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Benthic Infauna

DRAFT DATA

| Phylum | Class | Order | Family | StationID | SampleID | Replicate | SampleDate | SampleTime | Species | Qualifier | Abundance | Exclude | LabCode | SieveSize | SieveSizeUn | Voucher | PersonalVou | AnalysisTyp | Taxonomist | Comments |
|----------|-------------|--------------|--------------|-----------|----------|-----------|------------|------------|---|---------------|-----------|---------|---------|-----------|-------------|---------|-------------|-------------|------------|--------------------------------|
| Annelida | Polychaeta | Canalipalpat | Terebellidae | TMDL2-FH | | | 7/12/2013 | | Amphitrite robusta | | 2 | | DC | 1.0 | mm | | 2 | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpat | Cirratulidae | TMDL2-FH | | | 7/12/2013 | | Cirratulidae | | | Y | DC | 1.0 | mm | | | initial | Lovell, L. | juvs |
| Annelida | Polychaeta | Unassigned | Cossuridae | TMDL2-FH | | | 7/12/2013 | | Cossura candida | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Unassigned | Cossuridae | TMDL2-FH | | | 7/12/2013 | | Cossura sp | | 2 | Y | DC | 1.0 | mm | | | initial | Lovell, L. | juv |
| Annelida | Polychaeta | Unassigned | Cossuridae | TMDL2-FH | | | 7/12/2013 | | Cossura sp A | | 13 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Aciculata | Dorvilleidae | TMDL2-FH | | | 7/12/2013 | | Dorvillea (Schistomeringos) longicornis | | 18 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Aciculata | Syllidae | TMDL2-FH | | | 7/12/2013 | | Epigamia-Myrianida Cmplx | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpat | Sabellidae | TMDL2-FH | | | 7/12/2013 | | Euchone limicola | | 6 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Unassigned | Maldanidae | TMDL2-FH | | | 7/12/2013 | | Euclymeninae sp A | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Aciculata | Eunicidae | TMDL2-FH | | | 7/12/2013 | | Eunicidae | non countable | | | DC | 1.0 | mm | | | initial | Lovell, L. | 24 brood larvae, non countable |
| Annelida | Polychaeta | Aciculata | Syllidae | TMDL2-FH | | | 7/12/2013 | | Evogone lourei | | 9 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Aciculata | Polynoidae | TMDL2-FH | | | 7/12/2013 | | Harmothoe imbricata Cmplx | | 1 | | DC | 1.0 | mm | | 1 | initial | Lovell, L. | |
| Annelida | Polychaeta | Aciculata | Eunicidae | TMDL2-FH | | | 7/12/2013 | | Marphysa stylobranchiata | | 1 | | DC | 1.0 | mm | | 1 | initial | Lovell, L. | |
| Annelida | Polychaeta | Unassigned | Capitellidae | TMDL2-FH | | | 7/12/2013 | | Mediomastus sp | | 5 | N | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Aciculata | Nereididae | TMDL2-FH | | | 7/12/2013 | | Neanthes acuminata Cmplx | | 12 | | DC | 1.0 | mm | | 2 | initial | Lovell, L. | |
| Annelida | Oligochaeta | | | TMDL2-FH | | | 7/12/2013 | | Oligochaeta | | 445 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpat | Terebellidae | TMDL2-FH | | | 7/12/2013 | | Pista brevirbranchiata | | 2 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpat | Spionidae | TMDL2-FH | | | 7/12/2013 | | Prionospio (Prionospio) heterobranchia | | 7 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpat | Spionidae | TMDL2-FH | | | 7/12/2013 | | Pseudopolydora paucibranchiata | | 164 | | DC | 1.0 | mm | | 1 | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpat | Serpulidae | TMDL2-FH | | | 7/12/2013 | | Serpulidae | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | juv |
| Annelida | Polychaeta | Canalipalpat | Spionidae | TMDL2-FH | | | 7/12/2013 | | Spiophanes duplex | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L. | |
| Annelida | Polychaeta | Canalipalpat | Cirratulidae | TMDL2-FH | | | 7/12/2013 | | Timarete luxuriosa | | 3 | | DC | 1.0 | mm | | | initial | Lovell, L. | |

POLA/POLB Bight '13
Benthic Infauna

DRAFT DATA

| Phylum | Class | Order | Family | StationID | SampleID | Replicate | SampleDate | SampleTime | Species | Qualifier | Abundance | Exclude | LabCode | SieveSize | SieveSizeUn | Voucher | PersonalVou | AnalysisTyp | Taxonomist | Comments |
|----------|------------|--------------|------------------|-----------|----------|-----------|------------|------------|--------------------------------|-----------|-----------|---------|---------|-----------|-------------|---------|-------------|-------------|------------|---------------------------------|
| Annelida | Polychaeta | Canalipalpat | Cirratulidae | TMDL3-TB | | | 7/12/2013 | | Aphelochaeta monilaris | | 7 | | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Canalipalpat | Cirratulidae | TMDL3-TB | | | 7/12/2013 | | Aphelochaeta petersenae | | 4 | | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Canalipalpat | Cirratulidae | TMDL3-TB | | | 7/12/2013 | | Chaetozone columbiana | | 2 | | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Canalipalpat | Cirratulidae | TMDL3-TB | | | 7/12/2013 | | Chaetozone corona | | 3 | | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Canalipalpat | Cirratulidae | TMDL3-TB | | | 7/12/2013 | | Chaetozone hartmanae | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Unassigned | Cossuridae | TMDL3-TB | | | 7/12/2013 | | Cossura candida | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Unassigned | Cossuridae | TMDL3-TB | | | 7/12/2013 | | Cossura sp | Y | 1 | | DC | 1.0 | mm | | | initial | Lovell, L | juv |
| Annelida | Polychaeta | Unassigned | Cossuridae | TMDL3-TB | | | 7/12/2013 | | Cossura sp A | | 5 | | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Aciculata | Onuphidae | TMDL3-TB | | | 7/12/2013 | | Diopatra tridentata | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Aciculata | Oeonidae | TMDL3-TB | | | 7/12/2013 | | Drilonereis sp | N | 3 | | DC | 1.0 | mm | | | initial | Lovell, L | ant frags |
| Annelida | Polychaeta | Canalipalpat | Sabellidae | TMDL3-TB | | | 7/12/2013 | | Euchone limnicola | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Aciculata | Glyceridae | TMDL3-TB | | | 7/12/2013 | | Glycera americana | | 2 | | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Unassigned | Orbiniidae | TMDL3-TB | | | 7/12/2013 | | Leitoscoloplos sp A | | 5 | | DC | 1.0 | mm | | | initial | Lovell, L | branchiae begin set 10,11,12,13 |
| Annelida | Polychaeta | Aciculata | Lumbrineridae | TMDL3-TB | | | 7/12/2013 | | Lumbrineris japonica | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Aciculata | Lumbrineridae | TMDL3-TB | | | 7/12/2013 | | Lumbrineris ligulata | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Aciculata | Lumbrineridae | TMDL3-TB | | | 7/12/2013 | | Lumbrineris sp E | | 5 | | DC | 1.0 | mm | | 1 | initial | Lovell, L | |
| Annelida | Polychaeta | Unassigned | Capitellidae | TMDL3-TB | | | 7/12/2013 | | Mediomastus sp | N | 17 | | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Canalipalpat | Cirratulidae | TMDL3-TB | | | 7/12/2013 | | Monticollina cryptica | | 4 | | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Canalipalpat | Cirratulidae | TMDL3-TB | | | 7/12/2013 | | Monticollina siblina | | 12 | | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Aciculata | Nereididae | TMDL3-TB | | | 7/12/2013 | | Nereis sp A | | 2 | | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Canalipalpat | Sabellidae | TMDL3-TB | | | 7/12/2013 | | Paralalychnone paramollis | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Unassigned | Maldanidae | TMDL3-TB | | | 7/12/2013 | | Petaloclymene pacifica | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Aciculata | Hesionidae | TMDL3-TB | | | 7/12/2013 | | Podarkeopsis sp A | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Canalipalpat | Spionidae | TMDL3-TB | | | 7/12/2013 | | Prionospio (Prionospio) jubata | | 2 | | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Unassigned | Scalibregmatidae | TMDL3-TB | | | 7/12/2013 | | Scalibregma californicum | | 3 | | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Aciculata | Lumbrineridae | TMDL3-TB | | | 7/12/2013 | | Scoletoma sp | Y | 1 | | DC | 1.0 | mm | | | initial | Lovell, L | ant frags |
| Annelida | Polychaeta | Aciculata | Lumbrineridae | TMDL3-TB | | | 7/12/2013 | | Scoletoma tetraura Cmpix | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Aciculata | Pilargidae | TMDL3-TB | | | 7/12/2013 | | Sigambra setosa | | 8 | | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Canalipalpat | Spionidae | TMDL3-TB | | | 7/12/2013 | | Spiophanes duplex | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Canalipalpat | Terebellidae | TMDL3-TB | | | 7/12/2013 | | Streblosoma sp B | | 2 | | DC | 1.0 | mm | | | initial | Lovell, L | |

| Phylum | Class | Order | Family | StationID | SampleID | Replicate | SampleDate | SampleTime | Species | Qualifier | Abundance | Exclude | LabCode | SieveSize | SieveSizeUn | Voucher | PersonalVou | AnalysisTyp | Taxonomist | Comments |
|----------|-------------|--------------|---------------|-----------|----------|-----------|------------|------------|---|-----------|-----------|---------|---------|-----------|-------------|---------|-------------|-------------|------------|------------------|
| Annelida | Polychaeta | Canalipalpat | Cirratulidae | TMDL4-CS | | | 7/12/2013 | | Aphelochaeta sp | | 2 | N | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Unassigned | Capitellidae | TMDL4-CS | | | 7/12/2013 | | Capitella capitata Cmplx | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Unassigned | Cossuridae | TMDL4-CS | | | 7/12/2013 | | Cossura sp | | 10 | N | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Aciculata | Dorvilleidae | TMDL4-CS | | | 7/12/2013 | | Dorvillea (Schistomerings) longicornis | | 14 | | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Canalipalpat | Sabellidae | TMDL4-CS | | | 7/12/2013 | | | | 8 | | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Unassigned | Maldanidae | TMDL4-CS | | | 7/12/2013 | | Euchone limnicola | | 1 | | DC | 1.0 | mm | | 1 | initial | Lovell, L | w/ dorsal stripe |
| Annelida | Polychaeta | Aciculata | Syllidae | TMDL4-CS | | | 7/12/2013 | | Eugone lourei | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Unassigned | Capitellidae | TMDL4-CS | | | 7/12/2013 | | Mediomastus sp | | 3 | N | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Aciculata | Nereididae | TMDL4-CS | | | 7/12/2013 | | Neanthes acuminata Cmplx | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Oligochaeta | | | TMDL4-CS | | | 7/12/2013 | | Oligochaeta | | 53 | | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Canalipalpat | Spionidae | TMDL4-CS | | | 7/12/2013 | | Paraprionospio alata | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Canalipalpat | Pectinariidae | TMDL4-CS | | | 7/12/2013 | | Pectinaria californiensis | | 2 | | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Canalipalpat | Terrellidae | TMDL4-CS | | | 7/12/2013 | | Pista brevirbranchiata | | 4 | | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Canalipalpat | Terrellidae | TMDL4-CS | | | 7/12/2013 | | Pista wui | | 5 | | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Canalipalpat | Spionidae | TMDL4-CS | | | 7/12/2013 | | Prionospio (Minuspio) multibranchiata | | 2 | | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Canalipalpat | Spionidae | TMDL4-CS | | | 7/12/2013 | | Pseudopolydora paucibranchiata | | 11 | | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Canalipalpat | Spionidae | TMDL4-CS | | | 7/12/2013 | | Spiophanes berkeleyorum | | 2 | | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Canalipalpat | Spionidae | TMDL4-CS | | | 7/12/2013 | | Spiophanes duplex | | 3 | | DC | 1.0 | mm | | | initial | Lovell, L | |
| Annelida | Polychaeta | Canalipalpat | Spionidae | TMDL4-CS | | | 7/12/2013 | | Streblospio benedicti | | 1 | | DC | 1.0 | mm | | | initial | Lovell, L | |

| Phylum | Class | Order | Family | StationID | SampleID | Replicate | SampleDate | SampleTime | Species | Qualifier | Abundance | Exclude | LabCode | SieveSize | SieveSizeUnits | Voucher | PersonalVoucher | AnalysisType | Taxonomist | Comments |
|------------|--------------|----------------|-------------------|-----------|----------|-----------|------------|------------|--------------------------|-----------|-----------|---------|---------|-----------|----------------|---------|-----------------|--------------|------------|---|
| Arthropoda | Malacostraca | Decapoda | Pinnotheridae | 8340 | | | 7/12/2013 | | Pinnotheridae | None | 9 | Y | DC | 1.0 | mm | | | initial | Pasko, D | Specimens without clear anterolateral teeth, although anterior suborbital tooth |
| Arthropoda | Malacostraca | Decapoda | Callinassidae | 8340 | | | 7/12/2013 | | Neotrypaea gigas | None | 7 | | DC | 1.0 | mm | | | initial | Pasko, D | |
| Arthropoda | Malacostraca | Decapoda | Pinnotheridae | 8340 | | | 7/12/2013 | | Scleroplax granulata | None | 4 | | DC | 1.0 | mm | | | initial | Pasko, D | Immature specimens with characteristic carapace structure consistent with S. granulata specimens from other samples |
| Arthropoda | Malacostraca | Amphipoda | Liljeborgiidae | 8340 | | | 7/12/2013 | | Listriella goleta | None | 3 | | DC | 1.0 | mm | | | initial | Pasko, D | |
| Arthropoda | Malacostraca | Decapoda | Callinassidae | 8340 | | | 7/12/2013 | | Neotrypaea sp | None | 3 | Y | DC | 1.0 | mm | | | initial | Pasko, D | Specimens where the eyestalks shape is unclear; Primarily immature specimen CL< 2.5 mm |
| Arthropoda | Malacostraca | Decapoda | Pinnotheridae | 8340 | | | 7/12/2013 | | Pinnixa sp | None | 1 | N | DC | 1.0 | mm | | | initial | Pasko, D | Specimens with clear anterolateral teeth developed |
| Nemertea | Anopla | Heteronemertea | Lineidae | 8340 | | | 7/12/2013 | | Lineidae | None | 1 | N | DC | 1.0 | mm | | | initial | Pasko, D | White specimen, 12 mm long, notes made in notebook |
| Phoronida | Phoronida | Phoronida | Phoronidae | 8340 | | | 7/12/2013 | | Phoronis sp | None | 1 | N | DC | 1.0 | mm | | | initial | Pasko, D | |
| Nemertea | Enopla | Hoploneurina | Emplectonematidae | 8340 | | | 7/12/2013 | | Paranemertes californica | None | 2 | | DC | 1.0 | mm | | | initial | Pasko, D | |

| Phylum | Class | Order | Family | StationID | SampleID | Replicate | SampleDate | SampleTime | Species | Qualifier | Abundance | Exclude | LabCode | SieveSize | SieveSizeUnits | Voucher | PersonalVoucher | AnalysisType | Taxonomist | Comments |
|------------|---------------|---------------|-------------------|-----------|----------|-----------|------------|------------|----------------------------|-----------|-----------|---------|---------|-----------|----------------|---------|-----------------|--------------|------------|---|
| Arthropoda | Malacostraca | Amphipoda | Ampeliscaidae | 8360 | | | 7/10/2013 | | Ampelisca brachycladus | None | 1 | | DC | 1.0 | mm | | | initial | Pasko, D | |
| Arthropoda | Malacostraca | Amphipoda | Kamakidae | 8360 | | | 7/10/2013 | | Amphideutopus oculus | None | 1 | | DC | 1.0 | mm | | | initial | Pasko, D | |
| Arthropoda | Malacostraca | Amphipoda | Oedicerotidae | 8360 | | | 7/10/2013 | | Hartmanodes hartmanae | None | 1 | | DC | 1.0 | mm | | | initial | Pasko, D | |
| Arthropoda | Malacostraca | Decapoda | Alpheidae | 8360 | | | 7/10/2013 | | Betaeus sp | None | 1 N | | DC | 1.0 | mm | | | initial | Pasko, D | |
| Arthropoda | Malacostraca | Decapoda | Hippolytidae | 8360 | | | 7/10/2013 | | Hippolytidae | None | 1 N | | DC | 1.0 | mm | | | initial | Pasko, D | |
| Arthropoda | Malacostraca | Decapoda | Pinnotheridae | 8360 | | | 7/10/2013 | | Pinnixa sp | None | 1 Y | | DC | 1.0 | mm | | | initial | Pasko, D | Specimens with clear anterolateral teeth developed |
| Arthropoda | Malacostraca | Decapoda | Inachidae | 8360 | | | 7/10/2013 | | Eisenerodes hemphillii | None | 1 | | DC | 1.0 | mm | | | initial | Pasko, D | |
| Arthropoda | Malacostraca | Amphipoda | Phoxocephalidae | 8360 | | | 7/10/2013 | | Foxiphalus similis | None | 1 | | DC | 1.0 | mm | | 1 | initial | Pasko, D | |
| Arthropoda | Malacostraca | Isopoda | Anthuridae | 8360 | | | 7/10/2013 | | Haliophasma geminatum | None | 1 | | DC | 1.0 | mm | | | initial | Pasko, D | |
| Chordata | Ascidacea | Stolidobranch | Molgulidae | 8360 | | | 7/10/2013 | | Molgulidae | None | 1 N | | DC | 1.0 | mm | | | initial | Pasko, D | Small specimen, damaged during dissection |
| Chordata | Enteropneusta | | | 8360 | | | 7/10/2013 | | Enteropneusta | None | 1 N | | DC | 1.0 | mm | | | initial | Pasko, D | small juvenile specimen with inconclusive proboscis musculature |
| Cnidaria | Anthozoa | Ceriantharia | | 8360 | | | 7/10/2013 | | Ceriantharia | None | 1 N | | DC | 1.0 | mm | | | initial | Pasko, D | Juvenile specimen |
| Cnidaria | Anthozoa | Actiniaria | Halcampidae | 8360 | | | 7/10/2013 | | Halianthella sp A | None | 1 | | DC | 1.0 | mm | | 1 | initial | Pasko, D | |
| Nemertea | Enopla | Hoploneurini | Emplectonematidae | 8360 | | | 7/10/2013 | | Paranemertes californica | None | 1 | | DC | 1.0 | mm | | | initial | Pasko, D | |
| Nemertea | Anopla | Palaeonemeli | Tubulanidae | 8360 | | | 7/10/2013 | | Tubulanidae sp C | None | 1 | | DC | 1.0 | mm | | 1 | initial | Pasko, D | Photos taken |
| Arthropoda | Malacostraca | Amphipoda | Photidae | 8360 | | | 7/10/2013 | | Photis sp | None | 2 Y | | DC | 1.0 | mm | | | initial | Pasko, D | |
| Arthropoda | Malacostraca | Amphipoda | Liljeborgiidae | 8360 | | | 7/10/2013 | | Listriella melanica | None | 3 | | DC | 1.0 | mm | | | 2 initial | Pasko, D | Personal vouchers to Training collection |
| Nemertea | Anopla | Heteronemeli | Lineidae | 8360 | | | 7/10/2013 | | Lineidae | None | 3 N | | DC | 1.0 | mm | | | initial | Pasko, D | Two specimens of white form as in Station 8333 for which notes were made |
| Arthropoda | Malacostraca | Decapoda | Pinnotheridae | 8360 | | | 7/10/2013 | | Pinnixa franciscana | None | 4 | | DC | 1.0 | mm | | | initial | Pasko, D | |
| Nemertea | Anopla | Archinemerti | Cephalothricidae | 8360 | | | 7/10/2013 | | Procephalothrix sp | None | 4 N | | DC | 1.0 | mm | | 4 | initial | Pasko, D | FID_4 for confirmation; Small representatives of specimens of Stn TMDL4-CS, but these do have ventral crease that causes them to look like branchiae of some kind; however musculature appears Nemertean-like |
| Phoronida | | Phoronida | Phoronidae | 8360 | | | 7/10/2013 | | Phoronopsis sp | None | 4 N | | DC | 1.0 | mm | | | initial | Pasko, D | |
| Arthropoda | Malacostraca | Amphipoda | Photidae | 8360 | | | 7/10/2013 | | Photis brevipes | None | 5 | | DC | 1.0 | mm | | | initial | Pasko, D | |
| Phoronida | | Phoronida | Phoronidae | 8360 | | | 7/10/2013 | | Phoronis sp | None | 7 N | | DC | 1.0 | mm | | | initial | Pasko, D | Count includes 1 large specimen |
| Echiura | Echiuroida | Echiuroida | Thalassematidae | 8360 | | | 7/10/2013 | | Listriolobus pelodes | None | 8 | | DC | 1.0 | mm | | | initial | Pasko, D | |
| Arthropoda | Malacostraca | Amphipoda | Liljeborgiidae | 8360 | | | 7/10/2013 | | Listriella goleta | None | 9 | | DC | 1.0 | mm | | | initial | Pasko, D | |
| Arthropoda | Maxillopoda | Sessilia | Balanidae | 8360 | | | 7/10/2013 | | Megabalanus californicus | None | 9 | | DC | 1.0 | mm | | 2 | initial | Pasko, D | Count includes all juveniles, one large enough to identify. Requires confirmation |
| Nemertea | Anopla | Palaeonemeli | Tubulanidae | 8360 | | | 7/10/2013 | | Tubulanus polymorphus | None | 9 | | DC | 1.0 | mm | | | initial | Pasko, D | |
| Arthropoda | Malacostraca | Decapoda | Callinassidae | 8360 | | | 7/10/2013 | | Neotrypaea sp | None | 12 Y | | DC | 1.0 | mm | | | initial | Pasko, D | Specimens where the eyestalks are less than clear |
| Arthropoda | Malacostraca | Decapoda | Pinnotheridae | 8360 | | | 7/10/2013 | | Pinnotheridae | None | 14 Y | | DC | 1.0 | mm | | | initial | Pasko, D | Specimens without clear anterolateral teeth, although anterior suborbital tooth |
| Arthropoda | Malacostraca | Decapoda | Pinnotheridae | 8360 | | | 7/10/2013 | | Scleroplax granulata | None | 18 | | DC | 1.0 | mm | | | initial | Pasko, D | |
| Arthropoda | Ostracoda | Myodocopidae | Philomedidae | 8360 | | | 7/10/2013 | | Euphilomedes carcharodonta | None | 21 | | DC | 1.0 | mm | | | initial | Pasko, D | |
| Arthropoda | Malacostraca | Decapoda | Callinassidae | 8360 | | | 7/10/2013 | | Neotrypaea gigas | None | 25 | | DC | 1.0 | mm | | | initial | Pasko, D | |
| Cnidaria | Anthozoa | Actiniaria | Limnactinidae | 8360 | | | 7/10/2013 | | Limnactinidae sp A | None | 1 | | DC | 1.0 | mm | | 1 | initial | Pasko, D | |

POLA/POLB Bight '13
Benthic Infauna

DRAFT DATA

| Phylum | Class | Order | Family | StationID | SampleID | Replicate | SampleDate | SampleTime | Species | Qualifier | Abundance | Exclude | LabCode | SieveSize | SieveSizeUnits | Voucher | PersonalVoucher | AnalysisType | Taxonomist | Comments |
|------------|--------------|---------------|---------------|-----------|----------|-----------|------------|------------|----------------------------|-----------|-----------|---------|---------|-----------|----------------|---------|-----------------|--------------|------------|--|
| Arthropoda | Malacostraca | Amphipoda | Caprellidae | 8367 | | | 7/11/2013 | | Caprella californica | None | 1 | | DC | 1.0 | mm | | | initial | Pasko, D | |
| Arthropoda | Malacostraca | Amphipoda | Caprellidae | 8367 | | | 7/11/2013 | | Hemiprotos sp. A | None | 3 | | DC | 1.0 | mm | | | initial | Pasko, D | |
| Arthropoda | Malacostraca | Amphipoda | Caprellidae | 8367 | | | 7/11/2013 | | Caprella sp. | None | 1 | Y | DC | 1.0 | mm | | | initial | Pasko, D | Specimens without P3-7 present, rudimentary head spine developing |
| Arthropoda | Malacostraca | Amphipoda | Corophiidae | 8367 | | | 7/11/2013 | | Sinocorophium heterocerat | None | 11 | | DC | 1.0 | mm | | | initial | Pasko, D | |
| Arthropoda | Malacostraca | Amphipoda | Kamakidae | 8367 | | | 7/11/2013 | | Amphideutopus oculus | None | 23 | | DC | 1.0 | mm | | | initial | Pasko, D | |
| Arthropoda | Malacostraca | Amphipoda | Oedicerotidae | 8367 | | | 7/11/2013 | | Eocheilidium sp. A | None | 6 | | DC | 1.0 | mm | | | initial | Pasko, D | |
| Arthropoda | Malacostraca | Decapoda | Callinassidae | 8367 | | | 7/11/2013 | | Neotrypaea sp. | None | 4 | Y | DC | 1.0 | mm | | | initial | Pasko, D | Specimens where the eyestalks shape is unclear; Primarily immature specimens CL < 2.5 mm |
| Arthropoda | Malacostraca | Decapoda | Callinassidae | 8367 | | | 7/11/2013 | | Neotrypaea gigas | None | 1 | | DC | 1.0 | mm | | | initial | Pasko, D | |
| Arthropoda | Malacostraca | Isopoda | Serolidae | 8367 | | | 7/11/2013 | | Heteroserolis carinata | None | 1 | | DC | 1.0 | mm | | | initial | Pasko, D | juvenile specimen |
| Arthropoda | Ostracoda | Myodocopida | Philomedidae | 8367 | | | 7/11/2013 | | Euphilomedes carcharodon | None | 1 | | DC | 1.0 | mm | | | initial | Pasko, D | |
| Arthropoda | Ostracoda | Myodocopida | Sarsiellidae | 8367 | | | 7/11/2013 | | Eusarsiella thomix | None | 2 | | DC | 1.0 | mm | | | initial | Pasko, D | |
| Arthropoda | Pycnogonida | Pegmata | Phoxiellidae | 8367 | | | 7/11/2013 | | Anoplodactylus erectus | None | 5 | | DC | 1.0 | mm | | | initial | Pasko, D | |
| Arthropoda | Malacostraca | Amphipoda | Aoridae | 8367 | | | 7/11/2013 | | Grandidierella japonica | None | 1 | | DC | 1.0 | mm | | | initial | Pasko, D | |
| Arthropoda | Malacostraca | Amphipoda | Uncioidae | 8367 | | | 7/11/2013 | | Rudliemboides stenopropod | None | 5 | | DC | 1.0 | mm | | 5 | initial | Pasko, D | All females |
| Arthropoda | Malacostraca | Amphipoda | Corophiidae | 8367 | | | 7/11/2013 | | Monocorophium acherusicu | None | 2 | | DC | 1.0 | mm | | | initial | Pasko, D | |
| Arthropoda | Malacostraca | Amphipoda | Corophiidae | 8367 | | | 7/11/2013 | | Monocorophium sp. | None | 1 | N | DC | 1.0 | mm | | | initial | Pasko, D | Not M. acherusicum, and Not Sinocorophium; Female with long rostrum, missing Ant2. |
| Arthropoda | Malacostraca | Amphipoda | Aoridae | 8367 | | | 7/11/2013 | | Paramicrodeutopus schmitti | None | 5 | | DC | 1.0 | mm | | 4 | initial | Pasko, D | |
| Arthropoda | Malacostraca | Amphipoda | Caprellidae | 8367 | | | 7/11/2013 | | Mayerella acanthopoda | None | 17 | | DC | 1.0 | mm | | 4 | initial | Pasko, D | |
| Nemertea | Anopla | Palaeonem | Carinonidae | 8367 | | | 7/11/2013 | | Carinoma mutabilis | None | 1 | | DC | 1.0 | mm | | | initial | Pasko, D | |
| Phoronida | | Phoronida | Phoronidae | 8367 | | | 7/11/2013 | | Phoronis sp. | None | 27 | N | DC | 1.0 | mm | | | initial | Pasko, D | |
| Phoronida | | Phoronida | Phoronidae | 8367 | | | 7/11/2013 | | Phoronis sp. SD1 | None | 1 | | DC | 1.0 | mm | | | initial | Pasko, D | |
| Phoronida | | Phoronida | Phoronidae | 8367 | | | 7/11/2013 | | Phoronida | None | 3 | Y | DC | 1.0 | mm | | | initial | Pasko, D | |
| Chordata | Ascidacea | Stolidobranch | Molgulidae | 8367 | | | 7/11/2013 | | Molgulidae | None | 6 | N | DC | 1.0 | mm | | | initial | Pasko, D | Sample spilled after ID, but all specimens returned to sample vial, I believe |

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DRAFT DATA

| Phylum | Class | Order | Family | StationID | SampleID | Replicate | SampleDate | SampleTime | Species | Qualifier | Abundance | Exclude | LabCode | SieveSize | SieveSizeUn | Voucher | PersonalVou | AnalysisTyp | Taxonomist | Comments |
|------------|--------------|-------------|----------------|-----------|----------|-----------|------------|------------|----------------------------------|-----------|-----------|---------|---------|-----------|-------------|---------|-------------|-------------|------------|---|
| Arthropoda | Malacostraca | Amphipoda | Ampeliscaidae | 8382 | | | 7/10/2013 | | <i>Ampelisca brachycladus</i> | None | 1 | | DC | 1.0 | mm | | | initial | Pasko, D | |
| Arthropoda | Malacostraca | Amphipoda | Kamakidae | 8382 | | | 7/10/2013 | | <i>Amphideutopus oculatus</i> | None | 1 | | DC | 1.0 | mm | | | initial | Pasko, D | |
| Arthropoda | Malacostraca | Amphipoda | Oedicerotidae | 8382 | | | 7/10/2013 | | <i>Hartmanodes hartmanae</i> | None | 1 | | DC | 1.0 | mm | | | initial | Pasko, D | |
| Arthropoda | Malacostraca | Amphipoda | Oedicerotidae | 8382 | | | 7/10/2013 | | <i>Westwoodilla tone</i> | None | 1 | | DC | 1.0 | mm | | | initial | Pasko, D | |
| Arthropoda | Malacostraca | Decapoda | Callinassidae | 8382 | | | 7/10/2013 | | <i>Neotrypaea gigas</i> | None | 1 | | DC | 1.0 | mm | | | initial | Pasko, D | |
| Arthropoda | Malacostraca | Decapoda | Hippolytidae | 8382 | | | 7/10/2013 | | <i>Hippolytidae</i> | None | 1 | N | DC | 1.0 | mm | | | initial | Pasko, D | damaged, immature spm |
| Arthropoda | Malacostraca | Decapoda | Canidae | 8382 | | | 7/10/2013 | | <i>Canidae</i> | None | 1 | N | DC | 1.0 | mm | | | initial | Pasko, D | Juvenile cancer |
| Arthropoda | Ostracoda | Mydocopida | Philomedidae | 8382 | | | 7/10/2013 | | <i>Euphiomedes carcharodonta</i> | None | 1 | | DC | 1.0 | mm | | | initial | Pasko, D | |
| Arthropoda | Malacostraca | Decapoda | Panopeidae | 8382 | | | 7/10/2013 | | <i>Malacoplax californiensis</i> | None | 1 | | DC | 1.0 | mm | | 1 | initial | Pasko, D | |
| Arthropoda | Malacostraca | Tanaidacea | Tanaidae | 8382 | | | 7/10/2013 | | <i>Zeuxo normani</i> | None | 1 | | DC | 1.0 | mm | | | initial | Pasko, D | |
| Arthropoda | Pycnogonida | Pegmata | Ammotheidae | 8382 | | | 7/10/2013 | | <i>Ammothea hilgendorfi</i> | None | 1 | | DC | 1.0 | mm | | 1 | initial | Pasko, D | |
| Arthropoda | Pycnogonida | Pegmata | Ammotheidae | 8382 | | | 7/10/2013 | | <i>Achella echinata</i> | None | 1 | | DC | 1.0 | mm | | 1 | initial | Pasko, D | Generic ID confirmed with leaf-like denticulate spines on oviger, specific ID in question due to presence of only 2 spinose tubercles on coxae 1 and 2, but ocular tubercle taller than wide. |
| Arthropoda | Malacostraca | Decapoda | Callinassidae | 8382 | | | 7/10/2013 | | <i>Neotrypaea sp</i> | None | 2 | Y | DC | 1.0 | mm | | | initial | Pasko, D | |
| Arthropoda | Malacostraca | Decapoda | Cragonidae | 8382 | | | 7/10/2013 | | <i>Cragonidae</i> | None | 2 | N | DC | 1.0 | mm | | | initial | Pasko, D | |
| Arthropoda | Malacostraca | Decapoda | Pinnotheridae | 8382 | | | 7/10/2013 | | <i>Scleroplax granulata</i> | None | 2 | | DC | 1.0 | mm | | | initial | Pasko, D | |
| Arthropoda | Malacostraca | Decapoda | Inachoididae | 8382 | | | 7/10/2013 | | <i>Pyromsila tuberculata</i> | None | 2 | | DC | 1.0 | mm | | 2 | initial | Pasko, D | |
| Arthropoda | Malacostraca | Amphipoda | Liljeblorgidae | 8382 | | | 7/10/2013 | | <i>Listriella gotata</i> | None | 3 | | DC | 1.0 | mm | | | initial | Pasko, D | |
| Arthropoda | Malacostraca | Decapoda | Pinnotheridae | 8382 | | | 7/10/2013 | | <i>Pinnotheridae</i> | None | 4 | Y | DC | 1.0 | mm | | | initial | Pasko, D | |
| Arthropoda | Malacostraca | Amphipoda | Oedicerotidae | 8382 | | | 7/10/2013 | | <i>Eochelidium sp A</i> | None | 5 | | DC | 1.0 | mm | | | initial | Pasko, D | |
| Nemertea | Anopla | Palaeonemer | Tubulanidae | 8382 | | | 7/10/2013 | | <i>Tubulanus polymorphus</i> | None | 6 | | DC | 1.0 | mm | | | initial | Pasko, D | These represent the 3-color color variant - Pictures taken |
| Nemertea | Anopla | Palaeonemer | Carinonemidae | 8382 | | | 7/10/2013 | | <i>Carinoma mutabilis</i> | None | 1 | | DC | 1.0 | mm | | | initial | Pasko, D | |
| Cnidaria | Anthozoa | Ceriantaria | Ceriantnidae | 8382 | | | 7/10/2013 | | <i>Pachycerianthus</i> | None | 1 | N | DC | 1.0 | mm | | 1 | initial | Pasko, D | Vouchered to Cnid-6, as per 9Dec2013 SCAMIT meeting |
| Nemertea | Anopla | Palaeonemer | Tubulanidae | 8382 | | | 7/10/2013 | | <i>Tubulanus cingulatus</i> | None | 1 | | DC | 1.0 | mm | | 1 | initial | Pasko, D | |
| Phoronida | | Phoronida | Phoronidae | 8382 | | | 7/10/2013 | | <i>Phoronis sp</i> | None | 1 | N | DC | 1.0 | mm | | | initial | Pasko, D | Possibly Phoronis sp SD1, but w/o lophophore pigmentation |

| Phylum | Class | Order | Family | StationID | SampleID | Replicate | SampleDate | SampleTime | Species | Qualifier | Abundance | Exclude | LabCode | SieveSize | SieveSizeUnits | Voucher | PersonalVoucher | AnalysisType | Taxonomist | Comments |
|------------|--------------|--------------|------------------|-----------|----------|-----------|------------|------------|-------------------------|-----------|-----------|---------|---------|-----------|----------------|----------|-----------------|--------------|------------|---|
| Arthropoda | Pycnogonida | Pegmata | Phoxichilidiidae | 8396 | | | 7/12/2013 | | Anoplodactylus erectus | None | 1 | | DC | 1.0 | mm | | | initial | Pasko, D | |
| Arthropoda | Malacostraca | Amphipoda | Caprellidae | 8396 | | | 7/12/2013 | | Caprella sp | None | 2 | Y | DC | 1.0 | mm | | | initial | Pasko, D | Specimens without P3-7 present, rudimentary head spine developing |
| Arthropoda | Malacostraca | Amphipoda | Caprellidae | 8396 | | | 7/12/2013 | | Caprella sp WS1 | None | 1 | | DC | 1.0 | mm | | | initial | Pasko, D | in 1/4 Dram shell vial. Like C. simia but w/o tubercles on Pereonite 5 |
| Arthropoda | Malacostraca | Decapoda | Crangonidae | 8396 | | | 7/12/2013 | | Crangon alaskensis | None | 3 | | DC | 1.0 | mm | | | initial | Pasko, D | Count includes on juvenile specimen |
| Arthropoda | Malacostraca | Amphipoda | Oedicerotidae | 8396 | | | 7/12/2013 | | Eochelidium sp A | None | 12 | | DC | 1.0 | mm | | | initial | Pasko, D | |
| Arthropoda | Malacostraca | Decapoda | Inachidae | 8396 | | | 7/12/2013 | | Ericerodes hemphilli | None | 3 | | DC | 1.0 | mm | | | initial | Pasko, D | All specimens poorly preserved, appendages removed from specimens |
| Arthropoda | Ostracoda | Myodocopida | Philomedidae | 8396 | | | 7/12/2013 | | Euphilomedes carchar | None | 5 | | DC | 1.0 | mm | | | initial | Pasko, D | |
| Arthropoda | Malacostraca | Isopoda | Gnathiidae | 8396 | | | 7/12/2013 | | Gnathiidae | None | 1 | N | DC | 1.0 | mm | | | initial | Pasko, D | |
| Arthropoda | Malacostraca | Decapoda | Hippolytidae | 8396 | | | 7/12/2013 | | Heptacarpus stimpsoni | None | 6 | | DC | 1.0 | mm | | | initial | Pasko, D | |
| Arthropoda | Malacostraca | Amphipoda | Liljeborgiidae | 8396 | | | 7/12/2013 | | Liljeborgia geminata | None | 1 | | DC | 1.0 | mm | | | initial | Pasko, D | |
| Arthropoda | Malacostraca | Decapoda | Crangonidae | 8396 | | | 7/12/2013 | | Mesocrangon munitella | None | 2 | | DC | 1.0 | mm | | | initial | Pasko, D | |
| Arthropoda | Malacostraca | Decapoda | Callinassidae | 8396 | | | 7/12/2013 | | Neotrypaea gigas | None | 6 | | DC | 1.0 | mm | | | initial | Pasko, D | |
| Arthropoda | Malacostraca | Decapoda | Callinassidae | 8396 | | | 7/12/2013 | | Neotrypaea sp | None | 7 | Y | DC | 1.0 | mm | | | initial | Pasko, D | Specimens where the eyestalks are less than clear |
| Arthropoda | Malacostraca | Decapoda | Pinnotheridae | 8396 | | | 7/12/2013 | | Pinnixa sp | None | 1 | | DC | 1.0 | mm | | | initial | Pasko, D | Specimens with clear anterolateral teeth developed |
| Arthropoda | Malacostraca | Decapoda | Pinnotheridae | 8396 | | | 7/12/2013 | | Pinnotheridae | None | 2 | Y | DC | 1.0 | mm | | | initial | Pasko, D | Specimens without clear anterolateral teeth, although anterior suborbital tooth |
| Arthropoda | Malacostraca | Decapoda | Pinnotheridae | 8396 | | | 7/12/2013 | | Scleroplax granulata | None | 1 | | DC | 1.0 | mm | | | initial | Pasko, D | |
| Arthropoda | Malacostraca | Amphipoda | Corophiidae | 8396 | | | 7/12/2013 | | Sinocorophium alienense | None | 34 | | DC | 1.0 | mm | 17 - FID | | initial | Pasko, D | FID- 17: specimens damage, but key to S. alienense but do not match bz of rounded rostrum. Specimens confirmed by lateral spines on Ur 1 peduncle (vs setae in S. heteroceratum), elongate peduncle extending clear beyond telson (vs. barely so in S. heteroceratum) and/or long mandibular palp article 2 (vs short in S. heteroceratum) |
| Cnidaria | Anthozoa | Ceriantharia | | 8396 | | | 7/12/2013 | | Ceriantharia | None | 1 | N | DC | 1.0 | mm | | | initial | Pasko, D | Juvenile specimen |
| Nemertea | Anopla | Palaeoneme | Tubulanidae | 8396 | | | 7/12/2013 | | Tubulanus polymorpha | None | 1 | | DC | 1.0 | mm | | | initial | Pasko, D | |
| Nemertea | Anopla | Palaeoneme | Tubulanidae | 8396 | | | 7/12/2013 | | Tubulanus sp A | None | 1 | | DC | 1.0 | mm | | | initial | Pasko, D | Color variant as in 8310 (see Photo) |

| Phylum | Class | Order | Family | StationID | SampleID | Replicate | SampleDate | SampleTime | Species | Qualifier | Abundance | Exclude | LabCode | SieveSize | SieveSizeUni | Voucher | PersonalVou | AnalysisTyp | Taxonomist | Comments |
|------------|--------------|----------------|---------------|-----------|----------|-----------|------------|------------|-----------------------------|-----------|-----------|---------|---------|-----------|--------------|---------|-------------|-------------|------------|---|
| Arthropoda | Malacostraca | Amphipoda | Ampeliscoidea | 8399 | | | 7/12/2013 | | Ampelisca cristata cristata | None | 1 | | DC | 1.0 | mm | | | initial | Pasko, D | |
| Arthropoda | Malacostraca | Amphipoda | Lijeborgiidae | 8399 | | | 7/12/2013 | | Listriella goleta | None | 1 | | DC | 1.0 | mm | | | initial | Pasko, D | |
| Arthropoda | Malacostraca | Decapoda | Hippolytidae | 8399 | | | 7/12/2013 | | Heptacarpus stimpsoni | None | 1 | | DC | 1.0 | mm | | | initial | Pasko, D | Immature specimen |
| Arthropoda | Malacostraca | Decapoda | Callinassidae | 8399 | | | 7/12/2013 | | Neotrypaea sp | None | 6 | N | DC | 1.0 | mm | | | initial | Pasko, D | |
| Nemertea | Anopla | Palaeonemertea | | 8399 | | | 7/12/2013 | | Palaeonemertea sp | None | 1 | Y | DC | 1.0 | mm | | | initial | Pasko, D | head regenerating |
| Nemertea | Anopla | Palaeonemeri | Tubulanidae | 8399 | | | 7/12/2013 | | Tubulanus polymorphus | None | 5 | | DC | 1.0 | mm | | | initial | Pasko, D | All pale white forms with LSO and white ring difficult to distinguish |
| Nemertea | Anopla | Palaeonemeri | Tubulanidae | 8399 | | | 7/12/2013 | | Tubulanus sp A | None | 2 | | DC | 1.0 | mm | | 2 | initial | Pasko, D | Color variant as in 8310 (see Photo) |
| Nemertea | Anopla | Palaeonemeri | Tubulanidae | 8399 | | | 7/12/2013 | | Tubulanus sp SD1 | None | 1 | | DC | 1.0 | mm | | | initial | Pasko, D | |
| Phorona | | Phoronida | Phoronidae | 8399 | | | 7/12/2013 | | Phoronis sp | None | 8 | N | DC | 1.0 | mm | | | initial | Pasko, D | |
| Phorona | | Phoronida | Phoronidae | 8399 | | | 7/12/2013 | | Phoronis sp SD1 | None | 2 | | DC | 1.0 | mm | | | initial | Pasko, D | |
| Phorona | | Phoronida | Phoronidae | 8399 | | | 7/12/2013 | | Phoronida | None | 1 | Y | DC | 1.0 | mm | | | initial | Pasko, D | |

| Phylum | Class | Order | Family | StationID | SampleID | Replicate | SampleDate | SampleTime | Species | Qualifier | Abundance | Exclude | LabCode | SieveSize | SieveSizeUn | Voucher | PersonalVou | AnalysisTyp | Taxonomist | Comments |
|------------|--------------|--------------|------------------|-----------|----------|-----------|------------|------------|----------------------------|-----------|-----------|---------|---------|-----------|-------------|---------|-------------|-------------|------------|--|
| Arthropoda | Malacostraca | Amphipoda | Caprellidae | TMDL2-FH | | | 7/11/2013 | | Hemiproto sp A | None | 1 | | DC | 1.0 | mm | | | initial | Pasko, D | |
| Arthropoda | Malacostraca | Amphipoda | Oedicerotidae | TMDL2-FH | | | 7/11/2013 | | Eochelidium sp A | None | 1 | | DC | 1.0 | mm | | | initial | Pasko, D | |
| Arthropoda | Malacostraca | Amphipoda | Caprellidae | TMDL2-FH | | | 7/11/2013 | | Mayerella acanthopoda | None | 1 | | DC | 1.0 | mm | | | initial | Pasko, D | |
| Arthropoda | Malacostraca | Decapoda | Pinnotheridae | TMDL2-FH | | | 7/11/2013 | | Pinnotheridae | None | 1 | Y | DC | 1.0 | mm | | | initial | Pasko, D | |
| Arthropoda | Malacostraca | Decapoda | Callinassidae | TMDL2-FH | | | 7/11/2013 | | Neotrypaea sp | None | 2 | Y | DC | 1.0 | mm | | | initial | Pasko, D | |
| Arthropoda | Malacostraca | Decapoda | Pinnotheridae | TMDL2-FH | | | 7/11/2013 | | Pinnixa tomentosa | None | 2 | | DC | 1.0 | mm | | 1 | initial | Pasko, D | |
| Arthropoda | Malacostraca | Decapoda | Pinnotheridae | TMDL2-FH | | | 7/11/2013 | | Scleroplax granulata | None | 2 | | DC | 1.0 | mm | | | initial | Pasko, D | |
| Cnidaria | Anthozoa | Ceriantharia | Cerianthidae | TMDL2-FH | | | 7/11/2013 | | Pachycerianthus | None | 2 | | DC | 1.0 | mm | | | initial | Pasko, D | |
| Arthropoda | Malacostraca | Amphipoda | Aoridae | TMDL2-FH | | | 7/11/2013 | | Paramicrodeutopus schmitti | None | 3 | | DC | 1.0 | mm | | | initial | Pasko, D | |
| Nemertea | Anopla | Archinemerte | Cephalothricidae | TMDL2-FH | | | 7/11/2013 | | Procephalothrix sp | None | 5 | N | DC | 1.0 | mm | | 5 | initial | Pasko, D | FID_5 Elongate, coiled specimens with red coloration; but also with ventral crease(?); When cut (x-section) seemed to have Nemertean musculature |
| Arthropoda | Ostracoda | Myodocopida | Phiolomedidae | TMDL2-FH | | | 7/11/2013 | | Euphiomedes carcharodonta | None | 6 | | DC | 1.0 | mm | | | initial | Pasko, D | |
| Cnidaria | Anthozoa | Actiniaria | Edwardsiidae | TMDL2-FH | | | 7/11/2013 | | Edwardsia californica | None | 6 | | DC | 1.0 | mm | | 6 | initial | Pasko, D | Some specimens damaged; one complete and in good condition, only those with clear tentacles and/or physa counted. |
| Arthropoda | Malacostraca | Decapoda | Callinassidae | TMDL2-FH | | | 7/11/2013 | | Neotrypaea gigas | None | 7 | | DC | 1.0 | mm | | | initial | Pasko, D | |
| Arthropoda | Malacostraca | Amphipoda | Aoridae | TMDL2-FH | | | 7/11/2013 | | Grandidierella japonica | None | 55 | | DC | 1.0 | mm | | | initial | Pasko, D | |
| Arthropoda | Malacostraca | Amphipoda | Phoxocephalidae | TMDL2-FH | | | 7/11/2013 | | Heterophoxus cf ellisi | None | 97 | | DC | 1.0 | mm | | 20 | initial | Pasko, D | Total count includes 20 damaged specimens that also had the characteristic small epimeron 3 tooth. |

| Phylum | Class | Order | Family | StationID | SampleID | Replicate | SampleDate | SampleTime | Species | Qualifier | Abundance | Exclude | LabCode | SieveSize | SieveSizeUnit | Voucher | PersonalVou | AnalysisType | Taxonomist | Comments |
|------------|--------------|-------------|---------------|-----------|----------|-----------|------------|------------|-----------------------------|-----------|-----------|---------|---------|-----------|---------------|---------|-------------|--------------|------------|---|
| Arthropoda | Malacostraca | Amphipoda | Caprellidae | TMDL4-CS | | | 7/12/2013 | | Caprella sp. WS1 | None | 1 | | DC | 1.0 | mm | | | initial | Pasko, D | |
| Arthropoda | Malacostraca | Amphipoda | Corophiidae | TMDL4-CS | | | 7/12/2013 | | Monocorophium insidiosum | None | 1 | | DC | 1.0 | mm | | | initial | Pasko, D | |
| Arthropoda | Malacostraca | Amphipoda | Lijeborjidae | TMDL4-CS | | | 7/12/2013 | | Listriella poleta | None | 1 | | DC | 1.0 | mm | | | initial | Pasko, D | |
| Arthropoda | Malacostraca | Amphipoda | Dexaminidae | TMDL4-CS | | | 7/12/2013 | | Paradexamine sp SD1 | None | 1 | | DC | 1.0 | mm | | | initial | Pasko, D | |
| Arthropoda | Malacostraca | Decapoda | Pinnotheridae | TMDL4-CS | | | 7/12/2013 | | Pinnixa sp | None | 1 | N | DC | 1.0 | mm | | | initial | Pasko, D | |
| Arthropoda | Malacostraca | Decapoda | Pinnotheridae | TMDL4-CS | | | 7/12/2013 | | Pinnotheridae | None | 1 | Y | DC | 1.0 | mm | | | initial | Pasko, D | |
| Arthropoda | Malacostraca | Amphipoda | Uncioliidae | TMDL4-CS | | | 7/12/2013 | | Acuminodetopus heteruropus | None | 1 | | DC | 1.0 | mm | | | initial | Pasko, D | |
| Nematoda | Malacostraca | Decapoda | Pinnotheridae | TMDL4-CS | | | 7/12/2013 | | Nematoda | None | 1 | Y | DC | 1.0 | mm | | | initial | Pasko, D | |
| Arthropoda | Malacostraca | Decapoda | Pinnotheridae | TMDL4-CS | | | 7/12/2013 | | Scleroplax granulata | None | 2 | | DC | 1.0 | mm | | | initial | Pasko, D | |
| Arthropoda | Malacostraca | Isopoda | Paranthuridae | TMDL4-CS | | | 7/12/2013 | | Paranthurus japonica | None | 2 | | DC | 1.0 | mm | | 2 | initial | Pasko, D | |
| Arthropoda | Malacostraca | Amphipoda | Oedicerotidae | TMDL4-CS | | | 7/12/2013 | | Eochelidium sp A | None | 4 | | DC | 1.0 | mm | | | initial | Pasko, D | |
| Arthropoda | Malacostraca | Amphipoda | Uncioliidae | TMDL4-CS | | | 7/12/2013 | | Rudilemboides stenopropodus | None | 4 | | DC | 1.0 | mm | | | initial | Pasko, D | |
| Nemertea | Anopla | Heteronemer | Valenciidae | TMDL4-CS | | | 7/12/2013 | | Baseodiscus sp | None | 4 | | DC | 1.0 | mm | | 4 | initial | Pasko, D | Specimens same as those in 8397 & TMDL1-CH |
| Nemertea | Anopla | Palaeonemer | Tubulanidae | TMDL4-CS | | | 7/12/2013 | | Tubulanus polymorphus | None | 4 | | DC | 1.0 | mm | | | initial | Pasko, D | |
| Arthropoda | Malacostraca | Leptostraca | Nebaliidae | TMDL4-CS | | | 7/12/2013 | | Nebalia kensleyi | None | 6 | | DC | 1.0 | mm | | 6 | initial | Pasko, D | |
| Arthropoda | Malacostraca | Tanaidacea | Tanaidae | TMDL4-CS | | | 7/12/2013 | | Zeuxo normani CMLPX | None | 38 | | DC | 1.0 | mm | | | initial | Pasko, D | 28 with 6 articles; 9 with 5 articles; 1 with 7 articles. |
| Arthropoda | Malacostraca | Amphipoda | Aoridae | TMDL4-CS | | | 7/12/2013 | | Granddierella japonica | None | 72 | | DC | 1.0 | mm | | | initial | Pasko, D | |

| Phylum | Class | Order | Family | Species | Comments |
|------------|--------------|--------------|-----------------|--------------|--|
| Arthropoda | Entognatha | Poduromorpha | | Poduromorpha | Springtail |
| Arthropoda | Malacostraca | Amphipoda | Ampeliscaidae | 8318 | Ampelisca brachycladus |
| Arthropoda | Malacostraca | Amphipoda | Ampeliscaidae | | Ampelisca brevisimulata |
| Arthropoda | Malacostraca | Amphipoda | Ampeliscaidae | | Ampelisca cristata cristata |
| Arthropoda | Malacostraca | Amphipoda | Ampeliscaidae | 8318 | Ampelisca cristata microderolata |
| Arthropoda | Malacostraca | Amphipoda | Ampeliscaidae | | Ampelisca sp. |
| Arthropoda | Malacostraca | Amphipoda | Amphilocheidae | 8200 | Housterion viores |
| Arthropoda | Malacostraca | Amphipoda | Ampithoidae | 8136 | Ampithoe sp. |
| Arthropoda | Malacostraca | Amphipoda | Ampithoidae | | Ampithoe longimana |
| Arthropoda | Malacostraca | Amphipoda | Ampithoidae | | Ampithoe valida |
| Arthropoda | Malacostraca | Amphipoda | Aoridae | | Aoroidea exilis |
| Arthropoda | Malacostraca | Amphipoda | Aoridae | | Aoroidea spinosa |
| Arthropoda | Malacostraca | Amphipoda | Aoridae | 8134 | Bemlos concavus |
| Arthropoda | Malacostraca | Amphipoda | Aoridae | | Bemlos macromanus |
| Arthropoda | Malacostraca | Amphipoda | Aoridae | 8365 | Grandierella japonica |
| Arthropoda | Malacostraca | Amphipoda | Aoridae | 8367 | Paramicrodeutopus schmitti |
| Arthropoda | Malacostraca | Amphipoda | Caprellidae | 8401 | Caprella californica |
| Arthropoda | Malacostraca | Amphipoda | Caprellidae | TMDL1-CH | Caprella simia |
| Arthropoda | Malacostraca | Amphipoda | Caprellidae | 8401 | Caprella sp. |
| Arthropoda | Malacostraca | Amphipoda | Caprellidae | 8397 | Caprella sp WS1 |
| Arthropoda | Malacostraca | Amphipoda | Caprellidae | 8401 | Hemiproto sp A |
| Arthropoda | Malacostraca | Amphipoda | Caprellidae | 8367 | Mayerella acanthopoda |
| Arthropoda | Malacostraca | Amphipoda | Corophiidae | 8367 | Monocorophium acherusicum |
| Arthropoda | Malacostraca | Amphipoda | Corophiidae | 8397 | Monocorophium insidiosum |
| Arthropoda | Malacostraca | Amphipoda | Corophiidae | 8367 | Monocorophium sp. |
| Arthropoda | Malacostraca | Amphipoda | Corophiidae | | Smooth Gn2 dactyl, freely articulating urosomites, long excretory spout, males with sternal processes, telson distinctly concave, etc. Distinguished from S. heteroceratum by presence of lateral spines on Ur 1 peduncle (vs setae in S. heteroceratum), elongate peduncle extending clear beyond telson (vs. barely so in S. heteroceratum) and/or long mandibular palp article 2 (vs short in S. heteroceratum) |
| Arthropoda | Malacostraca | Amphipoda | Corophiidae | | Distinguished from S. alienense by large medial projection on male antenna 1; absence of "teeth" on Ant 2, Art 4-5; presence of lateral setae and small spines on Ur1 peduncle and dorsal fascicle of 4-5 long spines disto-laterally on peduncle of Ur1; |
| Arthropoda | Malacostraca | Amphipoda | Eusiridae | | Head w/ rostrum; eyes black kidney-shaped; Gn 1-2 weak, small, Art 5 weakly produced and not guarding propodus; pereopods break easily (like Amphilocheidae); Ep 3 serrate, straight, w/o distal tooth; Ur2 short, U1 reach distal end Ur3, but Ur2 only 1/2 as long; telson broad, laminar = Ur 3 peduncle, cleft, lobes broadly rounded (Compare to Tethygenia opata) |
| Arthropoda | Malacostraca | Amphipoda | Eusiridae | | Head w/ rostrum; eyes black kidney-shaped; head incised below eye; Gn 1-2, propodus elongate, narrow, oblique, Art 5 w/o prominent lobe guarding Art 6; Ep 3 smooth, sinuous w/ small tooth Ur2 short, U1 reach distal end Ur3, but Ur2 only 1/2 as long; telson cleft 3/4, lobes narrowed distally, laminar, 1-1/2 longer than Ur 3 peduncle (Compare to Nasagenia, Tethygenia an# inermis) |
| Arthropoda | Malacostraca | Amphipoda | Eusiridae | | Head w/ rostrum; eyes black kidney-shaped; Gn 1-2 oblique, Gn2, Art 5 w/ prominent lobe guarding Art 6; pereopods break easily (like Amphilocheidae); Ep 3 smooth, slightly sinuous w/ tooth; Ur2 short, U1 reach distal end Ur3, but Ur2 only 1/2 as long; telson cleft 3/4, lobes narrowed distally, laminar, 1-1/2 longer than Ur 3 peduncle (Compare to Nasagenia) |
| Arthropoda | Malacostraca | Amphipoda | Hyalidae | | Ant 1< Ant 2; Ur3 uni-ramus w/ strong spines distally on ped and ramus; Mn w/o palp; Mx1 palp uni-articulate; Cx 2-5 w/o posterior tooth/process - Further ID not possible; P. frequens, P. longipalpa, P. canalina, P. canalina has Gn1, Art3 w/ mid-dorsal spine; Gn1, Art2 w/ 2 long posterodistal spines; Gn1 Art3 with 2 posterodistal spines |
| Arthropoda | Malacostraca | Amphipoda | Ischyroceridae | | Protohyale sp. |
| Arthropoda | Malacostraca | Amphipoda | Kamakidae | | Erichonius brasiliensis |
| Arthropoda | Malacostraca | Amphipoda | Lijeborgiidae | 8396 | Amphideutopus oculatus |
| Arthropoda | Malacostraca | Amphipoda | Lijeborgiidae | 8322 | Lijeborgia geminata |
| Arthropoda | Malacostraca | Amphipoda | Lijeborgiidae | | Listriella diffusa |
| Arthropoda | Malacostraca | Amphipoda | Lijeborgiidae | | Listriella eriopisa |
| Arthropoda | Malacostraca | Amphipoda | Lijeborgiidae | | Listriella goleta |
| Arthropoda | Malacostraca | Amphipoda | Lijeborgiidae | 8363 | Listriella melanica |
| Arthropoda | Malacostraca | Amphipoda | Lijeborgiidae | | Listriella sp. |
| Arthropoda | Malacostraca | Amphipoda | Lijeborgiidae | | FD-1: Keys to L. albina, but eyes present (Station 9432, 202 m). Large specimen; Gn2 concave. Ur3 not quite "tear-drop" shaped enough for male. |
| Arthropoda | Malacostraca | Amphipoda | Maeridae | | Ant 2> Ant 1, w/ 3-artic acc. flagellum; Mn palp, Art 3 strongly falcate w/ comb of strong setae; Gn 2>> Gn1; Pl 3 serrate w/ tooth (E. rapax/bambo); Ur 3 biramus, inner ramus ~3/4 outer; Telson lobes deeply excavate each w/ 2-3 strong spines; 2 spines < 1/3 telson, 1 > 1/2 telson, medial lobe strongly produced (=E. rapax JLB 1962, Figs 16, 17 & in Light's Manual) |
| Arthropoda | Malacostraca | Amphipoda | Maeridae | 8200 | Elasmopus bampo |
| Arthropoda | Malacostraca | Amphipoda | Oedicerotidae | 8401 | Elasmopus bampo |
| Arthropoda | Malacostraca | Amphipoda | Oedicerotidae | 8333 | Eochelidium sp A |
| Arthropoda | Malacostraca | Amphipoda | Oedicerotidae | 8318 | Hartmanodes hartmanae |
| Arthropoda | Malacostraca | Amphipoda | Oedicerotidae | | Hartmanodes sp SD1 |
| Arthropoda | Malacostraca | Amphipoda | Oedicerotidae | | Westwoodilla lone |
| Arthropoda | Malacostraca | Amphipoda | Photidae | | Nedippe tumida |
| Arthropoda | Malacostraca | Amphipoda | Photidae | 8360 | Gammareopsis ocosa |
| Arthropoda | Malacostraca | Amphipoda | Photidae | 8360 | Photis brevipes |
| Arthropoda | Malacostraca | Amphipoda | Photidae | | Photis viuda |
| Arthropoda | Malacostraca | Amphipoda | Phoxocephalidae | | Harpinopsis fulgens |
| Arthropoda | Malacostraca | Amphipoda | Phoxocephalidae | 8360 | Foxiphalus similis |
| Arthropoda | Malacostraca | Amphipoda | Phoxocephalidae | TMDL2-FH | Heterophoxus cf ellisi |
| Arthropoda | Malacostraca | Amphipoda | Phoxocephalidae | 8401 | Heterophoxus ellisi |
| Arthropoda | Malacostraca | Amphipoda | Podoceridae | | Heterophoxus oculatus |
| Arthropoda | Malacostraca | Amphipoda | Podoceridae | | Podocerus fulanus |
| Arthropoda | Malacostraca | Amphipoda | Unciolidae | TMDL4-CS | Acuminodeutopus heterurupus |
| Arthropoda | Malacostraca | Amphipoda | Unciolidae | 8367 | Rudlemboides stenopropodus |
| Arthropoda | Malacostraca | Cumacea | Diastylidae | 8202 | Oxyurostylis pacifica |
| Arthropoda | Malacostraca | Cumacea | Leuconidae | | Leucon declivis |
| Arthropoda | Malacostraca | Decapoda | Alpheidae | 8371 | Alpheus californiensis |
| Arthropoda | Malacostraca | Decapoda | Alpheidae | 8326 | Betaeus sp |
| Arthropoda | Malacostraca | Decapoda | Axiidae | | Calocarides quinqueseriatu |
| Arthropoda | Malacostraca | Decapoda | Callinassidae | | Neotrypaea gigas |
| Arthropoda | Malacostraca | Decapoda | Callinassidae | | Specimens where the eyestalks shape is unclear; Primarily immature specimens CL< 2.5 mm |
| Arthropoda | Malacostraca | Decapoda | Canceridae | 8134 | Canceridae |
| Arthropoda | Malacostraca | Decapoda | Crangonidae | | Crangon alaskensis |
| Arthropoda | Malacostraca | Decapoda | Crangonidae | | Crangonidae |
| Arthropoda | Malacostraca | Decapoda | Crangonidae | 8401 | Mesocrangon munitella |
| Arthropoda | Malacostraca | Decapoda | Epialtidae | 8134 | Epialtidae |
| Arthropoda | Malacostraca | Decapoda | Hippidae | | Hippidae |
| Arthropoda | Malacostraca | Decapoda | Inachidae | | Erigerodes hemphilli |
| Arthropoda | Malacostraca | Decapoda | Inachidae | 8382 | Pyromia tuberculata |
| Arthropoda | Malacostraca | Decapoda | Paguridae | 8134 | Pagurus sp |
| Arthropoda | Malacostraca | Decapoda | Panopeidae | 8382 | Malacoplax californiensis |
| Arthropoda | Malacostraca | Decapoda | Pinnotheridae | | Pinnixa franciscana |
| Arthropoda | Malacostraca | Decapoda | Pinnotheridae | | Pinnixa littoralis |
| Arthropoda | Malacostraca | Decapoda | Pinnotheridae | | Pinnixa sp |
| Arthropoda | Malacostraca | Decapoda | Pinnotheridae | TMDL2-FH | Pinnixa tomentosa |
| Arthropoda | Malacostraca | Decapoda | Pinnotheridae | | Specimens without clear anterolateral teeth, although anterior suborbital tooth |
| Arthropoda | Malacostraca | Decapoda | Pinnotheridae | | Scleroplax granulata |
| Arthropoda | Malacostraca | Decapoda | Processidae | | Rostrum short, not reaching beyond eyes, simple, w/o teeth; eyes large, exposed; carapace elongate, not deep, w/o teeth, smooth (Euphausiid-like); P1 and P2 chelate, pereopods 1 subequal, semi-pectinate; pereopods 2 carpus of 4 articles (not 3 or 7 as in Hippolytidae); abdomen relative short; See "Processa" in Schmitt, Wicksten 1982. |
| Arthropoda | Malacostraca | Decapoda | Processidae | | Ambidexter panamensis |
| Arthropoda | Malacostraca | Decapoda | Vanuridae | | Hemigrapsus oregonensis |
| Arthropoda | Malacostraca | Isopoda | Anthuridae | 8360 | Haliophasma geminatum |
| Arthropoda | Malacostraca | Isopoda | Cirolanidae | | Excitrolana chiltoni |
| Arthropoda | Malacostraca | Isopoda | Gnathiidae | 8363 | Caecognathia crenulifrons |
| Arthropoda | Malacostraca | Isopoda | Gnathiidae | | Gnathiidae |
| Arthropoda | Malacostraca | Isopoda | Idoteidae | 8134 | Synidotea harfordi |
| Arthropoda | Malacostraca | Isopoda | Munnidae | 8200 | Uromunna ubiguta |
| Arthropoda | Malacostraca | Isopoda | Paranthuridae | TMDL4-CS | Paranthurus japonica |
| Arthropoda | Malacostraca | Isopoda | Serolidae | 8363 | Heteroserolis carinata |
| Arthropoda | Malacostraca | Isopoda | Sphaeromatidae | 8200 | Paracerceis sculpta |
| Arthropoda | Malacostraca | Leptostraca | Nebaliidae | TMDL4-CS | Nebalia kensleyi |
| Arthropoda | Malacostraca | Leptostraca | Nebaliidae | | Specimens with 1-3 spines distally on antennule article 4; terminal setae of uropods elongate. |
| Arthropoda | Malacostraca | Leptostraca | Nebaliidae | | With 2 spines on distal peduncular article 4 of antennule, pleonites with strong, sharp teeth, uropod terminal spine elongate-uropod ped; eye pigmented for 2/3 length, distally tapered, long; carapace long (>> than L. kensleyi) |
| Arthropoda | Malacostraca | Mysida | Mysidae | 8347 | Nebalia puggentensis Cmplx |
| Arthropoda | Malacostraca | Mysida | Mysidae | 8371 | Alienacanthomyia macropsis |
| Arthropoda | Malacostraca | Mysida | Mysidae | | Neomyia kadiakensis |
| Arthropoda | Malacostraca | Mysida | Mysidae | | Pseudomysia berkeleyi |
| Arthropoda | Malacostraca | Stomatopoda | Stomatopidae | | Schmittius politus |
| Arthropoda | Malacostraca | Tanaidacea | Leptocheilidae | | Leptocheila dubia Cmplx |
| Arthropoda | Malacostraca | Tanaidacea | Tanaidae | 8382, 8397 | Zeuxo normani Cmplx |
| Arthropoda | Malacostraca | Tanaidacea | Tanaidae | 8333 | Balanidae |

| Date | Sample/group | Taxon | Comments/Notes |
|-----------|--------------|------------------------------------|---|
| 6-Nov-13 | POLA/LB | Callianasid IDS | These could be collapsed to <i>N. gigas</i> if no other species is found in the POLA/LB samples! |
| 6-Nov-13 | POLA/LB | Pinnotheridae/ Pinnixa | See notes in species listing (names tab). These cannot be collapsed together because of some Pinnotheridae include likely <i>Scleroplax</i> and these were not separated out for the listed stations |
| 12-Nov-13 | POLA/LB | Zeuxo normani CMPLX | 44 specimens from Station 8397 included 25 with 6-articulate uropods and 19 with 5-articulate uropods. Email distribution to B13taxon@sccwrp.org announced use of <i>Z. normani</i> CMPLX. No character could be found to distinguish the two different forms as either <i>Z. normani</i> or <i>Z. paranormani</i> . |
| 13-Nov-13 | POLA/LB | Caprella sp WS1 | Caprella simia male was collected at Station TMDL1-CH. This specimen was 10 mm (about 2-3 mm larger than the <i>C. sp</i> WS1 specimens. Need to compare the two later. And Change Caprella sp WS1 to <i>C. simia</i> throughout as necessary |
| 20-Nov-13 | POLA/LB | Heterophoxus cf ellisi | Differentiated from offshore form by smaller Ep3 tooth, and singly inserted spines on Posterior margin of P6, Art 5 (vs long seta + spine in <i>H. ellisi</i>). ALL historical embayment specimens may also want to be differentiated in this way. |
| 13-Dec-13 | POLA/LB | Sinocorophiu m heteroceratum | Distinguished from <i>S. alienense</i> by large medial projection on male antenna 1; absence of "teeth" on Ant 2, Art 4-5; presence of dorsal fascicle of 4-5 long spines disto-laterally on peduncle of Ur1; spinose lateral margin of Ur 2; Specimens confirmed by lateral spines on Ur 1 peduncle (vs setae in <i>S. heteroceratum</i>), elongate peduncle extending clear beyond telson (vs. barely so in <i>S. heteroceratum</i>) and/or long mandibular palp article 2 (vs short in <i>S. heteroceratum</i>) |

APPENDIX D
DATA VALIDATION REPORTS



DATA VALIDATION REVIEW REPORT – EPA STAGE 2A

Project: GWMA – TMDL Compliance Monitoring – 2015 Winter Wet
Project Number: 141205-01.01
Date: May 18, 2015

This report summarizes the review of analytical results for 67 water samples, five field duplicates, one rinsate blank, and one field blank collected February 24, 2015. The samples were collected by Anchor QEA, LLC, and submitted to Eurofins Calscience, Inc (ECI). The samples were analyzed for the following parameters:

- Chlorinated pesticides by United States Environmental Protection Agency (USEPA) method 8081A
- Polychlorinated biphenyl congeners (PCBs) by USEPA method 8270C SIM
- Total and dissolved mercury (Hg) by USEPA method 1631E
- Total and dissolved metals by USEPA method 1640
- Total suspended solids (TSS) by Standard Method (SM) 2540D

ECI sample data group (SDG) numbers 15-02-1742, 15-02-1894, and 15-02-1895 were reviewed in this report. Sample IDs, matrices, and analyses conducted are presented in Table 1.

Table 1
Sample IDs, Matrices, and Analyses

| Sample ID | Lab ID | Matrix | Analyses |
|-----------------------|---------------|--------|---|
| CB-RW-11-G-B-20150224 | 15-02-1895-26 | Water | TSS |
| CB-RW-11-G-M-20150224 | 15-02-1895-25 | Water | TSS |
| CB-RW-11-G-S-20150224 | 15-02-1895-24 | Water | TSS, PCBs, pesticides, total and dissolved metals |
| CM-RW-10-G-B-20150224 | 15-02-1894-25 | Water | TSS |
| CM-RW-10-G-M-20150224 | 15-02-1894-24 | Water | TSS |
| CM-RW-10-G-S-20150224 | 15-02-1894-23 | Water | TSS, PCBs, pesticides, total and dissolved metals |
| CS-RW-01-G-B-20150224 | 15-02-1894-3 | Water | TSS |
| CS-RW-01-G-M-20150224 | 15-02-1894-2 | Water | TSS |
| CS-RW-01-G-S-20150224 | 15-02-1894-1 | Water | TSS, PCBs, pesticides, total and dissolved |

| Sample ID | Lab ID | Matrix | Analyses |
|-------------------------|---------------|--------|---|
| | | | metals |
| CS-RW-1001-G-S-20150224 | 15-02-1894-4 | Water | TSS |
| EB20150224 | 15-02-1742-21 | Water | PCBs, pesticides, total and dissolved metals |
| FB-20150224 | 15-02-1894-26 | Water | Total and dissolved metals |
| FH-RW-07-G-B-20150224 | 15-02-1894-22 | Water | TSS |
| FH-RW-07-G-M-20150224 | 15-02-1894-21 | Water | TSS |
| FH-RW-07-G-S-20150224 | 15-02-1894-20 | Water | TSS, PCBs, pesticides, total and dissolved metals |
| IA-RW-02-G-B-20150224 | 15-02-1894-7 | Water | TSS |
| IA-RW-02-G-M-20150224 | 15-02-1894-6 | Water | TSS |
| IA-RW-02-G-S-20150224 | 15-02-1894-5 | Water | TSS, PCBs, pesticides, total and dissolved metals |
| IA-RW-03-G-B-20150224 | 15-02-1894-10 | Water | TSS |
| IA-RW-03-G-M-20150224 | 15-02-1894-9 | Water | TSS |
| IA-RW-03-G-S-20150224 | 15-02-1894-8 | Water | TSS, PCBs, pesticides, total and dissolved metals |
| IA-RW-04-G-B-20150224 | 15-02-1894-13 | Water | TSS |
| IA-RW-04-G-M-20150224 | 15-02-1894-12 | Water | TSS |
| IA-RW-04-G-S-20150224 | 15-02-1894-11 | Water | TSS, PCBs, pesticides, total and dissolved metals |
| IA-RW-05-G-B-20150224 | 15-02-1894-19 | Water | TSS |
| IA-RW-05-G-M-20150224 | 15-02-1894-18 | Water | TSS |
| IA-RW-05-G-S-20150224 | 15-02-1894-17 | Water | TSS, PCBs, pesticides, total and dissolved metals |
| IA-RW-06-G-B-20150224 | 15-02-1894-16 | Water | TSS |
| IA-RW-06-G-M-20150224 | 15-02-1894-15 | Water | TSS |
| IA-RW-06-G-S-20150224 | 15-02-1894-14 | Water | TSS, PCBs, pesticides, total and dissolved metals |
| IB-RW-12-G-B-20150224 | 15-02-1895-3 | Water | TSS |
| IB-RW-12-G-M-20150224 | 15-02-1895-2 | Water | TSS |
| IB-RW-12-G-S-20150224 | 15-02-1895-1 | Water | TSS, PCBs, pesticides, total and dissolved metals |
| IB-RW-13-G-B-20150224 | 15-02-1895-6 | Water | TSS |
| IB-RW-13-G-M-20150224 | 15-02-1895-5 | Water | TSS |
| IB-RW-13-G-S-20150224 | 15-02-1895-4 | Water | TSS, PCBs, pesticides, total and dissolved metals |
| IB-RW-14-G-B-20150224 | 15-02-1895-9 | Water | TSS |
| IB-RW-14-G-M-20150224 | 15-02-1895-8 | Water | TSS |
| IB-RW-14-G-S-20150224 | 15-02-1895-7 | Water | TSS, PCBs, pesticides, total and dissolved metals |
| IB-RW-15-G-B-20150224 | 15-02-1895-13 | Water | TSS |
| IB-RW-15-G-M-20150224 | 15-02-1895-11 | Water | TSS |
| IB-RW-1015-G-M-20150224 | 15-02-1895-12 | Water | TSS |

| Sample ID | Lab ID | Matrix | Analyses |
|-------------------------|---------------|--------|---|
| IB-RW-15-G-S-20150224 | 15-02-1895-10 | Water | TSS, PCBs, pesticides, total and dissolved metals |
| LE-RW-21-G-B-20150224 | 15-02-1742-7 | Water | TSS |
| LE-RW-21-G-M-20150224 | 15-02-1742-6 | Water | TSS |
| LE-RW-21-G-S-20150224 | 15-02-1742-5 | Water | TSS, PCBs, pesticides, total and dissolved metals |
| LE-RW-1021-G-S-20150224 | 15-02-1742-8 | Water | TSS, PCBs, pesticides, total and dissolved metals |
| LE-RW-22-G-B-20150224 | 15-02-1742-3 | Water | TSS |
| LE-RW-22-G-M-20150224 | 15-02-1742-2 | Water | TSS |
| LE-RW-22-G-S-20150224 | 15-02-1742-1 | Water | TSS, PCBs, pesticides, total and dissolved metals |
| LE-RW-1022-G-S-20150224 | 15-02-1742-4 | Water | PCBs, pesticides, total and dissolved metals |
| OB-RW-08-G-B-20150224 | 15-02-1895-19 | Water | TSS |
| OB-RW-1008-G-B-20150224 | 15-02-1895-20 | Water | TSS |
| OB-RW-08-G-M-20150224 | 15-02-1895-18 | Water | TSS |
| OB-RW-08-G-S-20150224 | 15-02-1895-17 | Water | TSS, PCBs, pesticides, total and dissolved metals |
| OB-RW-09-G-B-20150224 | 15-02-1895-23 | Water | TSS |
| OB-RW-09-G-M-20150224 | 15-02-1895-22 | Water | TSS |
| OB-RW-09-G-S-20150224 | 15-02-1895-21 | Water | TSS, PCBs, pesticides, total and dissolved metals |
| OB-RW-16-G-B-20150224 | 15-02-1895-16 | Water | TSS |
| OB-RW-16-G-M-20150224 | 15-02-1895-15 | Water | TSS |
| OB-RW-16-G-S-20150224 | 15-02-1895-14 | Water | TSS, PCBs, pesticides, total and dissolved metals |
| OB-RW-17-G-B-20150224 | 15-02-1742-14 | Water | TSS |
| OB-RW-17-G-M-20150224 | 15-02-1742-13 | Water | TSS |
| OB-RW-17-G-S-20150224 | 15-02-1742-12 | Water | TSS, PCBs, pesticides, total and dissolved metals |
| SP-RW-18-G-B-20150224 | 15-02-1742-11 | Water | TSS |
| SP-RW-18-G-M-20150224 | 15-02-1742-10 | Water | TSS |
| SP-RW-18-G-S-20150224 | 15-02-1742-9 | Water | TSS, PCBs, pesticides, total and dissolved metals |
| SP-RW-19-G-B-20150224 | 15-02-1742-20 | Water | TSS |
| SP-RW-19-G-M-20150224 | 15-02-1742-19 | Water | TSS |
| SP-RW-19-G-S-20150224 | 15-02-1742-18 | Water | TSS, PCBs, pesticides, total and dissolved metals |
| SP-RW-20-G-B-20150224 | 15-02-1742-23 | Water | TSS |
| SP-RW-20-G-M-20150224 | 15-02-1742-16 | Water | TSS |
| SP-RW-1020-G-M-20150224 | 15-02-1742-17 | Water | TSS |
| SP-RW-20-G-S-20150224 | 15-02-1742-15 | Water | TSS, PCBs, pesticides, total and dissolved metals |

Data Validation and Qualifications

The following comments refer to the laboratory's performance in meeting the quality assurance/quality control (QA/QC) guidelines outlined in the analytical procedures and data quality objective sections of the Sampling and Analysis Plans (SAP; Anchor QEA 2014).

Laboratory results were reviewed using the following guidelines:

- *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review* (USEPA 2004)
- *USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review* (USEPA 1999)
- *USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review* (USEPA 2008)

Laboratory and method QC criteria were also used as stated in USEPA 1986 (SW-846, Third Edition), *Test Methods for Evaluating Solid Waste: Physical/Chemical Methods*, update 1, August 1993; update II, January 1995; update IIA, February 1994; update IIB, August 1995; update III, June 1997; update IIIA, May 1999; update IIIB, June 2008; update IVA and IVB, January 2008. Unless noted in this report, laboratory results for the samples listed above were within QC criteria.

Field Documentation

Field documentation was checked for completeness and accuracy. The chain-of-custody forms were signed by ECI at the time of sample receipt; the samples were received within the recommended temperature range and in good condition. Samples LE-RW-21-G-S-20150224 and OB-RW-08-G-B-20150224 appeared on the COC twice. The sample IDs of the second set of bottles collected for each sample were changed to LE-RW-1021-G-S-20150224 and OB-RW-1008-G-B-20150224 to indicate that these samples are field duplicates.

Holding Times and Sample Preservation

Samples were appropriately preserved and analyzed within holding times.

Laboratory Method Blanks

Laboratory method blanks were analyzed at the required frequencies. All method blanks were free of target analytes with the exceptions of several metals in the total and dissolved

fractions. Associated detected sample results that were not significantly greater than (>5x) the concentrations in the method blanks have been qualified as non-detects.

See Table 4 for qualified data.

Field Quality Control

Field Blanks and Equipment Blanks

One field blank and one equipment rinsate blank were collected and analyzed in association with these sample sets. The blank results were below detection with the exceptions of some low-level metals detections. These are summarized in Table 2.

Table 2
Field Blank and Equipment Blank Detections Summary

| Sample | Analyte | Concentration |
|-------------|-------------------|---------------|
| EB20150224 | Dissolved cadmium | 0.0106J µg/L |
| | Dissolved copper | 1.01B µg/L |
| | Dissolved lead | 0.294 µg/L |
| | Total cadmium | 0.0169J µg/L |
| | Total mercury | 0.00255B µg/L |
| FB-20150224 | Dissolved mercury | 0.00132 µg/L |
| | Total copper | 2.09B µg/L |

Notes:

µg/L = microgram per liter

No sample results were qualified based on field or equipment blank results.

Field Duplicates

Five water field duplicates were collected in association with these sample sets. Detected results are summarized in Table 3.

Table 3
Field Duplicate Summary

| Analyte | CS-RW-01-G-S-20150224 | CS-RW-1001-G-S-20150224 | RPD |
|---------|-----------------------|-------------------------|------|
| TSS | 0.95U mg/L | 3.0 mg/L | 200% |

| Analyte | LE-RW-21-G-S-20150224 | LE-RW-1021-G-S-20150224 | RPD |
|------------------------|-----------------------|-------------------------|-----|
| Dissolved mercury | 0.00323 µg/L | 0.00572 µg/L | 56% |
| Total mercury | 0.00893B µg/L | 0.00928B µg/L | 4% |
| Dissolved cadmium | 0.0535 µg/L | 0.0506 µg/L | 6% |
| Total cadmium | 0.0707 µg/L | 0.0776 µg/L | 9% |
| Dissolved chromium | 0.251J µg/L | 0.206J µg/L | 20% |
| Total chromium | 0.455J µg/L | 0.546 µg/L | 18% |
| Dissolved copper | 1.74B µg/L | 1.24B µg/L | 34% |
| Total copper | 3.21B µg/L | 3.47B µg/L | 8% |
| Dissolved lead | 0.209 µg/L | 0.216 µg/L | 3% |
| Total lead | 1.35 µg/L | 1.85 µg/L | 31% |
| Dissolved zinc | 7.13B µg/L | 5.93B µg/L | 18% |
| Total zinc | 11.1B µg/L | 11.4B µg/L | 3% |
| Total suspended solids | 5.9 mg/L | 9.1 mg/L | 43% |

| Analyte | LE-RW-22-G-S-20150224 | LE-RW-1022-G-S-20150224 | RPD |
|-------------------|-----------------------|-------------------------|-----|
| Dissolved Mercury | 0.0043 µg/L | 0.00203 µg/L | 72% |
| Total Mercury | 0.0114B µg/L | 0.00991B µg/L | 14% |
| Dissolved Cadmium | 0.0427 µg/L | 0.0522 µg/L | 20% |
| Total Cadmium | 0.0635 µg/L | 0.0661 µg/L | 4% |
| Total Chromium | 0.451J µg/L | 0.422J µg/L | 7% |
| Dissolved Copper | 0.735B µg/L | 1.78B µg/L | 83% |
| Total Copper | 2.58B µg/L | 3.31B µg/L | 25% |
| Dissolved Lead | 0.154 µg/L | 0.194 µg/L | 23% |
| Total Lead | 1.46 µg/L | 0.966 µg/L | 41% |
| Dissolved Zinc | 4.24B µg/L | 7.43B µg/L | 55% |
| Total Zinc | 9.07B µg/L | 9.9B µg/L | 9% |

Results at or near the reporting limit (RL) may have exaggerated relative percent difference (RPD) values. Most results are within the project required control limit of less than or equal to 25% relative percent difference (RPD) value. The RPD control limit does not apply when the difference between the results is less than or equal to 2x MRL and the results are $\leq 5x$ MRL. Dissolved mercury, dissolved copper and total lead exceeded control limits in both sets of field duplicate pairs. The TSS RPD value was above the control limit for samples LE-RW-21-G-S-20150224 and LE-RW-1021-G-S-20150224. The dissolved zinc RPD value was above the control limit for samples LE-RW-22-G-S-20150224 and LE-RW-1022-G-S-20150224. No data were qualified based on field duplicate results.

Surrogate Recoveries

Surrogate recoveries were within laboratory control limits with the exception of decachlorobiphenyl in the pesticide analyses of samples CS-RW-01-G-S-20150224, IA-RW-02-G-S-20150224, and IA-RW-04-G-S-20150224 in SDG 15-02-1894. The surrogates

recovered above the control limit, however, no pesticides were detected in the samples so no data were qualified.

Column Confirmation

No pesticide results were detected by method 8081A so second column confirmation was not required.

Laboratory Control Sample and Laboratory Control Sample Duplicate

Laboratory control samples (LCS) and laboratory control sample duplicates (LCSD) were analyzed at the required frequencies and all LCS/LCSD analyses resulted in recoveries and/or RPD values within project-required control limits.

Matrix Spike and Matrix Spike Duplicate

Matrix spike (MS) and matrix spike duplicate (MSD) samples were analyzed at required frequencies or LCS/LCSDs were analyzed in place of MS/MSD samples. Some MS/MSD results were reported for non-project samples and no data were qualified based on these results. When the parent sample concentration was significantly greater than (>4x) the spike concentration, percent recoveries were not calculated and no data were qualified. MS/MSD recoveries and/or RPD values were within project-required control limits with the following exceptions:

- SDG 15-02-1895 Metals – The MSD analyzed on sample IB-RW-12-G-S-20150224 recovered above the control limit for total chromium. Associated results were qualified “J” to indicate a potentially high bias.
- SDG 15-02-1742 Metals – The MS and MSD analyzed on sample LE-RW-1022-G-S-20150224 recovered above the control limits for total mercury. Associated results were qualified “J” to indicate a potentially high bias.

See Table 4 for qualified data.

Laboratory Duplicates

Laboratory duplicates were analyzed at the required frequencies or MSDs or LCSDs were analyzed in place of lab duplicates. All duplicate results were within required limits.

Method Reporting Limits

Reporting limits were acceptable as reported. All values were reported using the laboratory reporting limits. Values were reported as undiluted, or when reported as diluted, the reporting limit accurately reflects the dilution factor.

Overall Assessment

As was determined by this evaluation, the laboratory followed the specified analytical methods and all requested sample analyses were completed. Accuracy was acceptable as demonstrated by the surrogate, LCS/LCSD, and MS/MSD recovery values, with the exceptions noted above. Precision was also acceptable as demonstrated by the field and laboratory duplicates, MS/MSD, and LCS/LCSD RPD values. Most data were acceptable as reported; all other data are acceptable as qualified. Table 4 summarizes the qualifiers applied to sample results reviewed in this report.

Data Qualifier Definitions

- U Indicates the compound or analyte was analyzed for but not detected at or above the specified limit.
- J Indicates an estimated value.
- R Indicates data is rejected and unusable
- UJ Indicates the compound or analyte was analyzed for but not detected and the specified limit reported is estimated
- DNR Do not report

Table 4
Data Qualification Summary

| Sample ID | Metals Fraction | Analyte | Reported Result | Qualified Result | Reason |
|-----------------------|-----------------|----------|-----------------|------------------|----------------------------|
| CB-RW-11-G-S-20150224 | Dissolved | Cadmium | 0.0628B µg/L | 0.0628U µg/L | Method blank contamination |
| | Total | | 0.0597B µg/L | 0.0597U µg/L | |
| | Total | Chromium | 0.532 µg/L | 0.532J µg/L | High MSD %R |
| CM-RW-10-G-S-20150224 | Dissolved | Cadmium | 0.0815B µg/L | 0.0815U µg/L | Method blank contamination |
| | Total | | 0.0758B µg/L | 0.0758U µg/L | |
| EB20150224 | Total | Mercury | 0.00255B µg/L | 0.00255J µg/L | High MS/MSD %R |
| | | Copper | 0.0261B,J µg/L | 0.03U µg/L | Method blank contamination |
| | Dissolved | Zinc | 0.539B µg/L | 0.539U µg/L | |

| Sample ID | Metals Fraction | Analyte | Reported Result | Qualified Result | Reason |
|--------------------------|-----------------|----------|-----------------|------------------|----------------------------|
| | Total | | 0.236B,J µg/L | 0.500U µg/L | |
| FB-20150224 | Total | Cadmium | 0.00682B,J µg/L | 0.03U µg/L | Method blank contamination |
| | | Zinc | 1.06B µg/L | 1.06U µg/L | |
| | Dissolved | Copper | 0.0531B µg/L | 0.0531U µg/L | |
| | | Zinc | 0.257BJ µg/L | 0.500U µg/L | |
| FH-RW-07-G-S-20150224 | Dissolved | Cadmium | 0.0718B µg/L | 0.0718U µg/L | Method blank contamination |
| | Total | | 0.0677B µg/L | 0.0677U µg/L | |
| IA-RW-02-G-S-20150224 | Dissolved | Cadmium | 0.0725B µg/L | 0.0725U µg/L | Method blank contamination |
| | Total | | 0.0702B µg/L | 0.0702U µg/L | |
| IA-RW-03-G-S-20150224 | Dissolved | Cadmium | 0.0674B µg/L | 0.0674U µg/L | Method blank contamination |
| | Total | | 0.0609B µg/L | 0.0609U µg/L | |
| IA-RW-04-G-S-20150224 | Dissolved | Cadmium | 0.0657B µg/L | 0.0657U µg/L | Method blank contamination |
| | Total | | 0.0599B µg/L | 0.0599U µg/L | |
| IA-RW-05-G-S-20150224 | Dissolved | Cadmium | 0.0494B µg/L | 0.0494U µg/L | Method blank contamination |
| | Total | | 0.0469B µg/L | 0.0469U µg/L | |
| IA-RW-06-G-S-20150224 | Dissolved | Cadmium | 0.0556B µg/L | 0.0556U µg/L | Method blank contamination |
| | Total | | 0.051B µg/L | 0.051U µg/L | |
| IB-RW-12-G-S-20150224 | Dissolved | Cadmium | 0.0589B µg/L | 0.0589U µg/L | Method blank contamination |
| | Total | | 0.0636B µg/L | 0.0636U µg/L | |
| | Total | Chromium | 0.465J µg/L | 0.465J µg/L | High MSD %R |
| IB-RW-13-G-S-20150224 | Dissolved | Cadmium | 0.0497B µg/L | 0.0497U µg/L | Method blank contamination |
| | Total | | 0.0513B µg/L | 0.0513U µg/L | |
| | Total | Chromium | 1.02 µg/L | 1.02J µg/L | High MSD %R |
| IB-RW-14-G-S-20150224 | Dissolved | Cadmium | 0.0491B µg/L | 0.0491U µg/L | Method blank contamination |
| | Total | | 0.0466B µg/L | 0.0466U µg/L | |
| | Total | Chromium | 0.346J µg/L | 0.346J µg/L | High MSD %R |
| IB-RW-15-G-S-20150224 | Dissolved | Cadmium | 0.0453B µg/L | 0.0453U µg/L | Method blank contamination |
| | Total | | 0.0428B µg/L | 0.0428U µg/L | |
| | Total | Chromium | 0.319J µg/L | 0.319J µg/L | High MSD %R |
| LE-RW-1022-G-S-20150224 | Total | Mercury | 0.00991B µg/L | 0.00991J µg/L | High MS/MSD %R |
| LE-RW-21-G-S-20150224 | Total | Mercury | 0.00893B µg/L | 0.00893J µg/L | High MS/MSD %R |
| LE-RW-21-G-S-20150224-FD | Total | Mercury | 0.00928B µg/L | 0.00928J µg/L | High MS/MSD %R |
| LE-RW-22-G-S-20150224 | Total | Mercury | 0.0114B µg/L | 0.0114J µg/L | High MS/MSD %R |
| OB-RW-08-G-S-20150224 | Dissolved | Cadmium | 0.0429B µg/L | 0.0429U µg/L | Method blank contamination |
| | Total | | 0.0429B µg/L | 0.0429U µg/L | |
| | Total | Chromium | 0.399J µg/L | 0.399J µg/L | High MSD %R |
| OB-RW-09-G-S-20150224 | Dissolved | Cadmium | 0.0428B µg/L | 0.0428U µg/L | Method blank contamination |
| | Total | | 0.0478B µg/L | 0.0478U µg/L | |
| | Total | Chromium | 0.438J µg/L | 0.438J µg/L | High MSD %R |
| OB-RW-16-G-S-20150224 | Dissolved | Cadmium | 0.044B µg/L | 0.044U µg/L | Method blank contamination |
| | Total | | 0.0421B µg/L | 0.0421U µg/L | |
| | Total | Chromium | 0.368J µg/L | 0.368J µg/L | High MSD %R |

| Sample ID | Metals Fraction | Analyte | Reported Result | Qualified Result | Reason |
|-----------------------|-----------------|---------|-----------------|------------------|----------------|
| OB-RW-17-G-S-20150224 | Total | Mercury | 0.0106B µg/L | 0.0106J µg/L | High MS/MSD %R |
| SP-RW-18-G-S-20150224 | Total | Mercury | 0.0156B µg/L | 0.0156J µg/L | High MS/MSD %R |
| SP-RW-19-G-S-20150224 | Total | Mercury | 0.00603B µg/L | 0.00603J µg/L | High MS/MSD %R |
| SP-RW-20-G-S-20150224 | Total | Mercury | 0.0364B µg/L | 0.0364J µg/L | High MS/MSD %R |

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DATA VALIDATION REVIEW REPORT – EPA STAGE 2A

Project: GWMA – TMDL Compliance Monitoring – 2015 Summer Dry
Project Number: 141205-01.02
Date: August 6, 2015

This report summarizes the review of analytical results for 66 water samples, three field duplicates, one rinsate blank, and one field blank collected July 7, 2015. The samples were collected by Anchor QEA, LLC and Coastal Resources Management, and submitted to Eurofins Calscience, Inc (ECI). The samples were analyzed for the following parameters:

- Chlorinated pesticides by United States Environmental Protection Agency (USEPA) method 8081A
- Polychlorinated biphenyl congeners (PCBs) by USEPA method 8270C SIM
- Total and dissolved mercury (Hg) by USEPA method 1631E
- Total and dissolved metals by USEPA method 1640
- Total suspended solids (TSS) by Standard Method (SM) 2540D

ECI sample data group (SDG) numbers 15-07-0283, 15-07-0298, and 15-07-0323 were reviewed in this report. Sample IDs, matrices, and analyses conducted are presented in Table 1.

Table 1
Sample IDs, Matrices, and Analyses

| Sample ID | Lab ID | Matrix | Analyses |
|-------------------------|--------------|--------|---|
| LE-RW-22-G-S-20150707 | 15-07-0283-1 | Water | TSS, PCBs, pesticides, total and dissolved metals |
| LE-RW-22-G-M-20150707 | 15-07-0283-2 | Water | TSS |
| LE-RW-22-G-B-20150707 | 15-07-0283-3 | Water | TSS |
| LE-RW-21-G-S-20150707 | 15-07-0283-5 | Water | TSS, PCBs, pesticides, total and dissolved metals |
| LE-RW-1021-G-S-20150707 | 15-07-0283-4 | Water | TSS |
| LE-RW-21-G-M-20150707 | 15-07-0283-6 | Water | TSS |
| LE-RW-21-G-B-20150707 | 15-07-0283-7 | Water | TSS |
| SP-RW-18-G-S-20150707 | 15-07-0283-8 | Water | TSS, PCBs, pesticides, total and dissolved metals |
| SP-RW-18-G-M-20150707 | 15-07-0283-9 | Water | TSS |

| Sample ID | Lab ID | Matrix | Analyses |
|-------------------------|---------------|--------|---|
| SP-RW-18-G-B-20150707 | 15-07-0283-10 | Water | TSS |
| OB-RW-17-G-S-20150707 | 15-07-0283-11 | Water | TSS, PCBs, pesticides, total and dissolved metals |
| OB-RW-17-G-M-20150707 | 15-07-0283-12 | Water | TSS |
| OB-RW-17-G-B-20150707 | 15-07-0283-13 | Water | TSS |
| OB-RW-1017-G-S-20150707 | 15-07-0283-14 | Water | TSS |
| SP-RW-20-G-S-20150707 | 15-07-0283-15 | Water | TSS, PCBs, pesticides, total and dissolved metals |
| SP-RW-20-G-M-20150707 | 15-07-0283-16 | Water | TSS |
| SP-RW-20-G-B-20150707 | 15-07-0283-17 | Water | TSS |
| SP-RW-19-G-S-20150707 | 15-07-0283-18 | Water | TSS, PCBs, pesticides, total and dissolved metals |
| SP-RW-19-G-M-20150707 | 15-07-0283-19 | Water | TSS |
| SP-RW-19-G-B-20150707 | 15-07-0283-20 | Water | TSS |
| EB-20150707 | 15-07-0283-21 | Water | TSS, PCBs, pesticides, total metals |
| CS-RW-01-G-S-20150707 | 15-07-0298-1 | Water | TSS, PCBs, pesticides, total and dissolved metals |
| CS-RW-01-G-M-20150707 | 15-07-0298-2 | Water | TSS |
| CS-RW-01-G-B-20150707 | 15-07-0298-3 | Water | TSS |
| IA-RW-02-G-S-20150707 | 15-07-0298-4 | Water | TSS, PCBs, pesticides, total and dissolved metals |
| IA-RW-02-G-M-20150707 | 15-07-0298-5 | Water | TSS |
| IA-RW-1002-G-S-20150707 | 15-07-0298-16 | Water | TSS, PCBs, pesticides, total and dissolved metals |
| IA-RW-02-G-B-20150707 | 15-07-0298-6 | Water | TSS |
| IA-RW-03-G-S-20150707 | 15-07-0298-7 | Water | TSS, PCBs, pesticides, total and dissolved metals |
| IA-RW-03-G-M-20150707 | 15-07-0298-8 | Water | TSS |
| IA-RW-03-G-B-20150707 | 15-07-0298-9 | Water | TSS |
| IA-RW-04-G-S-20150707 | 15-07-0298-10 | Water | TSS, PCBs, pesticides, total and dissolved metals |
| IA-RW-04-G-M-20150707 | 15-07-0298-11 | Water | TSS |
| IA-RW-04-G-B-20150707 | 15-07-0298-12 | Water | TSS |
| IA-RW-05-G-S-20150707 | 15-07-0298-13 | Water | TSS, PCBs, pesticides, total and dissolved metals |
| IA-RW-05-G-M-20150707 | 15-07-0298-14 | Water | TSS |
| IA-RW-05-G-B-20150707 | 15-07-0298-15 | Water | TSS |
| IA-RW-06-G-S-20150707 | 15-07-0298-17 | Water | TSS, PCBs, pesticides, total and dissolved metals |
| IA-RW-06-G-M-20150707 | 15-07-0298-18 | Water | TSS |
| IA-RW-06-G-B-20150707 | 15-07-0298-19 | Water | TSS |
| FB-20150707 | 15-07-0298-21 | Water | Total and dissolved metals |
| FH-RW-07-G-S-20150707 | 15-07-0298-24 | Water | TSS, PCBs, pesticides, total and dissolved metals |
| FH-RW-07-G-M-20150707 | 15-07-0298-25 | Water | TSS |
| FH-RW-07-G-B-20150707 | 15-07-0298-26 | Water | TSS |
| IA-RW-06-G-M-20150707 | 15-07-0298-27 | Water | TSS |
| IB-RW-12-G-M-20150707 | 15-07-0323-1 | Water | TSS |
| IB-RW-12-G-B-20150707 | 15-07-0323-2 | Water | TSS |
| IB-RW-12-G-S-20150707 | 15-07-0323-3 | Water | TSS, PCBs, pesticides, total and dissolved metals |
| IB-RW-13-G-S-20150707 | 15-07-0323-4 | Water | TSS, PCBs, pesticides, total and dissolved metals |
| IB-RW-13-G-M-20150707 | 15-07-0323-5 | Water | TSS |

| Sample ID | Lab ID | Matrix | Analyses |
|-----------------------|---------------|--------|---|
| IB-RW-13-G-B-20150707 | 15-07-0323-6 | Water | TSS |
| IB-RW-14-G-S-20150707 | 15-07-0323-7 | Water | TSS, PCBs, pesticides, total and dissolved metals |
| IB-RW-14-G-M-20150707 | 15-07-0323-8 | Water | TSS |
| IB-RW-14-G-B-20150707 | 15-07-0323-9 | Water | TSS |
| OA-RW-09-G-S-20150707 | 15-07-0323-10 | Water | TSS, PCBs, pesticides, total and dissolved metals |
| OA-RW-09-G-M-20150707 | 15-07-0323-11 | Water | TSS |
| OA-RW-09-G-B-20150707 | 15-07-0323-12 | Water | TSS |
| CB-RW-11-G-S-20150707 | 15-07-0323-13 | Water | TSS, PCBs, pesticides, total and dissolved metals |
| CB-RW-11-G-M-20150707 | 15-07-0323-14 | Water | TSS |
| CB-RW-11-G-B-20150707 | 15-07-0323-15 | Water | TSS |
| CM-RW-10-G-S-20150707 | 15-07-0323-16 | Water | TSS, PCBs, pesticides, total and dissolved metals |
| CM-RW-10-G-M-20150707 | 15-07-0323-17 | Water | TSS |
| CM-RW-10-G-B-20150707 | 15-07-0323-18 | Water | TSS |
| OA-RW-08-G-S-20150707 | 15-07-0323-19 | Water | TSS, PCBs, pesticides, total and dissolved metals |
| OA-RW-08-G-M-20150707 | 15-07-0323-20 | Water | TSS |
| OA-RW-08-G-B-20150707 | 15-07-0323-21 | Water | TSS |
| OB-RW-16-G-S-20150707 | 15-07-0323-22 | Water | TSS, PCBs, pesticides, total and dissolved metals |
| OB-RW-16-G-M-20150707 | 15-07-0323-23 | Water | TSS |
| OB-RW-16-G-B-20150707 | 15-07-0323-24 | Water | TSS |
| IB-RW-15-G-S-20150707 | 15-07-0323-25 | Water | TSS, PCBs, pesticides, total and dissolved metals |
| IB-RW-15-G-M-20150707 | 15-07-0323-26 | Water | TSS |
| IB-RW-15-G-B-20150707 | 15-07-0323-27 | Water | TSS |

Data Validation and Qualifications

The following comments refer to the laboratory's performance in meeting the quality assurance/quality control (QA/QC) guidelines outlined in the analytical procedures and data quality objective sections of the Sampling and Analysis Plan (SAP; Anchor QEA 2014).

Laboratory results were reviewed using the following guidelines:

- *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review* (USEPA 2004)
- *USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review* (USEPA 1999)
- *USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review* (USEPA 2008)

Laboratory and method QC criteria were also used as stated in USEPA 1986 (SW-846, Third Edition), *Test Methods for Evaluating Solid Waste: Physical/Chemical Methods*, update 1,

August 1993; update II, January 1995; update IIA, February 1994; update IIB, August 1995; update III, June 1997; update IIIA, May 1999; update IIIB, June 2008; update IVA and IVB, January 2008. Unless noted in this report, laboratory results for the samples listed above were within QC criteria.

Field Documentation

Field documentation was checked for completeness and accuracy. The chain-of-custody (COC) forms were signed by ECI at the time of sample receipt; the samples were received within the recommended temperature range and in good condition. There were a few sample identification discrepancies on the COC forms, but these were all addressed by the lab and data are not affected.

Holding Times and Sample Preservation

Samples were appropriately preserved and analyzed within holding times.

Laboratory Method Blanks

Laboratory method blanks were analyzed at the required frequencies. All method blanks were free of target analytes.

Field Quality Control

Field Blanks and Equipment Blanks

One field blank and one equipment rinsate blank were collected and analyzed in association with these sample sets. The blank results were below detection with the exceptions of some low-level metals detections. These are summarized in Table 2.

Table 2
Field Blank and Equipment Blank Detections Summary

| Sample | Analyte | Concentration |
|-------------|------------------|---------------|
| EB-20150707 | Total lead | 0.0441 µg/L |
| | Total copper | 0.654 µg/L |
| | Total zinc | 1.17 µg/L |
| FB-20150707 | Total copper | 0.478 µg/L |
| | Dissolved copper | 0.493 µg/L |

Notes:

µg/L = microgram per liter

No sample results were qualified based on field or equipment blank results.

Field Duplicates

Five water duplicates were collected in association with these sample sets, including two lab duplicates collected in exactly the same manner as field duplicates for TSS. Detected results and relative percent difference (RPDs) values are summarized in Table 3.

**Table 3
Field Duplicate Summary**

| Analyte | LE-RW-21-G-S-20150707 | LE-RW-1021-G-S-20150707 | RPD | MRL | Difference |
|---------|-----------------------|-------------------------|-----|----------|------------|
| TSS | 2.8 mg/L | 6.6 mg/L | 81% | 1.0 mg/L | 3.8 mg/L |

| Analyte | IA-RW-02-G-S-20150707 | IA-RW-1002-G-S-20150707 | RPD | MRL | Difference |
|--------------------|-----------------------|-------------------------|------|-------------|-------------|
| Dissolved mercury | 0.596 ng/L | 0.113U ng/L | 200% | -- | -- |
| Total mercury | 1.04 ng/L | 1.48 ng/L | 35% | 0.500 ng/L | 0.44 ng/L |
| Dissolved cadmium | 0.0314 µg/L | 0.023J µg/L | 31% | 0.0300 µg/L | 0.0084 µg/L |
| Total cadmium | 0.0363 µg/L | 0.0287J µg/L | 23% | -- | -- |
| Dissolved chromium | 0.318J µg/L | 0.318J µg/L | 0% | -- | -- |
| Total chromium | 0.504 µg/L | 0.451J µg/L | 11% | -- | -- |
| Dissolved copper | 0.129 µg/L | 1.37 µg/L | 166% | 0.0300 µg/L | 1.241 µg/L |
| Total copper | 2.7 µg/L | 2.32 µg/L | 15% | -- | -- |
| Dissolved lead | 0.036 µg/L | 0.0149J µg/L | 83% | 0.0300 µg/L | 0.0211 µg/L |
| Total lead | 0.236 µg/L | 0.173 µg/L | 31% | 0.0300 µg/L | 0.063 µg/L |
| Dissolved zinc | 0.459J µg/L | 4.37 µg/L | 162% | 0.500 µg/L | 3.911 µg/L |
| Total zinc | 8.16 µg/L | 6.76 µg/L | 19% | -- | -- |

Results at or near the reporting limit (RL) may have exaggerated RPD values. Most results are within the project required control limit of less than or equal to 25% RPD value. The RPD control limit does not apply when the difference between the results is less than or equal to two times the RL and the results are less than five times the RL. The TSS RPD value was above the control limit for samples LE-RW-21-G-S-20150707 and LE-RW-1021-G-S-

20150707, and the difference between the two values was greater than the RL. The total lead, dissolved copper and dissolved zinc RPD values were above the control limit for samples IA-RW-02-G-S-20150707 and IA-RW-1002-G-S-20150707, and the differences between the results were greater than the RL. No data were qualified based on field duplicate results.

Surrogate Recoveries

Surrogate recoveries were within laboratory control limits.

Column Confirmation

No pesticide results were detected by method 8081A so second column confirmation was not required.

Laboratory Control Sample and Laboratory Control Sample Duplicate

Laboratory control samples (LCS) and laboratory control sample duplicates (LCSD) were analyzed at the required frequencies and all LCS/LCSD analyses resulted in recoveries and/or RPD values within project-required control limits.

Matrix Spike and Matrix Spike Duplicate

Matrix spike (MS) and matrix spike duplicate (MSD) samples were analyzed at required frequencies or LCS/LCSDs were analyzed in place of MS/MSD samples. Some MS/MSD results were reported for non-project samples and no data were qualified based on these results. When the parent sample concentration was significantly greater than (>4x) the spike concentration, percent recoveries were not calculated and no data were qualified. MS/MSD recoveries and/or RPD values were within project-required control limits with the exceptions of total metals in SDG 15-07-0323. The MS and MSD analyzed on sample IB-RW-12-G-S-20150707 recovered above the control limit for total cadmium, chromium and zinc. Detected results were qualified “J” to indicate a potentially high bias.

See Table 4 for qualified data.

Laboratory Duplicates

Laboratory duplicates were analyzed at the required frequencies or MSDs or LCSDs were analyzed in place of lab duplicates. All duplicate results were within required limits.

Method Reporting Limits

Reporting limits were acceptable as reported. All values were reported using the laboratory reporting limits. Values were reported as undiluted, or when reported as diluted, the reporting limit accurately reflects the dilution factor.

Overall Assessment

As was determined by this evaluation, the laboratory followed the specified analytical methods and all requested sample analyses were completed. Accuracy was acceptable as demonstrated by the surrogate, LCS/LCSD, and MS/MSD recovery values, with the exceptions noted above. Precision was also acceptable as demonstrated by the field and laboratory duplicates, MS/MSD, and LCS/LCSD RPD values. Most data were acceptable as reported; cadmium, chromium and zinc results in nine samples were qualified for high MS and MSD percent recovery values, and are acceptable as qualified. Table 4 summarizes the qualifiers applied to sample results reviewed in this report.

Data Qualifier Definitions

J Indicates an estimated value.

Table 4
Data Qualification Summary

| Sample ID | Analyte | Reported Result | Qualified Result |
|-----------------------|----------|-----------------|------------------|
| CB-RW-11-G-S-20150707 | Cadmium | 0.0255J µg/L | 0.0255J µg/L |
| | Chromium | 0.49J µg/L | 0.49J µg/L |
| | Zinc | 5.95 µg/L | 5.95J µg/L |
| CM-RW-10-G-S-20150707 | Cadmium | 0.0378 µg/L | 0.0378J µg/L |
| | Chromium | 0.536 µg/L | 0.536J µg/L |
| | Zinc | 32.4 µg/L | 32.4J µg/L |
| IB-RW-12-G-S-20150707 | Cadmium | 0.0299J µg/L | 0.0299J µg/L |
| | Chromium | 0.605 µg/L | 0.605J µg/L |
| | Zinc | 17.8 µg/L | 17.8J µg/L |
| IB-RW-13-G-S-20150707 | Cadmium | 0.0214J µg/L | 0.0214J µg/L |
| | Chromium | 0.51 µg/L | 0.51J µg/L |

| Sample ID | Analyte | Reported Result | Qualified Result |
|-----------------------|----------|-----------------|------------------|
| | Zinc | 3.97 µg/L | 3.97J µg/L |
| IB-RW-14-G-S-20150707 | Cadmium | 0.0204J µg/L | 0.0204J µg/L |
| | Chromium | 0.53 µg/L | 0.53J µg/L |
| | Zinc | 2.93 µg/L | 2.93J µg/L |
| IB-RW-15-G-S-20150707 | Cadmium | 0.0149J µg/L | 0.0149J µg/L |
| | Chromium | 0.356J µg/L | 0.356J µg/L |
| | Zinc | 1.97 µg/L | 1.97J µg/L |
| OA-RW-08-G-S-20150707 | Cadmium | 0.0149J µg/L | 0.0149J µg/L |
| | Chromium | 0.489J µg/L | 0.489J µg/L |
| | Zinc | 1.94 µg/L | 1.94J µg/L |
| OA-RW-09-G-S-20150707 | Cadmium | 0.0228J µg/L | 0.0228J µg/L |
| | Chromium | 0.557 µg/L | 0.557J µg/L |
| | Zinc | 3.17 µg/L | 3.17J µg/L |
| OB-RW-16-G-S-20150707 | Cadmium | 0.015J µg/L | 0.015J µg/L |
| | Chromium | 0.344J µg/L | 0.344J µg/L |
| | Zinc | 1.15 µg/L | 1.15J µg/L |

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- Anchor QEA, 2014. Water Sampling and Analysis Plan. Greater Los Angeles and Long Beach Harbor Waters. September.
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- USEPA, 2008. USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review. U.S. Environmental Protection Agency, Office of Superfund Remediation and Technology Innovation. USEPA 540-R-08-01. June.
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DATA VALIDATION REVIEW REPORT – EPA STAGE 2A

Project: GWMA – TMDL Compliance Monitoring
Project Number: 130153-01
Date: March 4, 2015

This report summarizes the review of analytical results for 30 tissue samples, 131 water samples, six field duplicates, two rinsate blanks, and two field blanks collected September 26, 28, and 30, October 8 and 15, and November 2, 2014. The samples were collected by Anchor QEA, LLC, and submitted to Eurofins Calscience, Inc (ECI). The samples were analyzed for the following parameters:

- Chlorinated pesticides by United States Environmental Protection Agency (USEPA) method 8270C Select Ion Monitoring (SIM) and 8081A
- Polychlorinated biphenyl congeners (PCBs) by USEPA method 8270C SIM
- Percent lipids by NOAA 1993a
- Percent moisture by American Standard Testing and Materials (ASTM) method D2216 modified
- Total and dissolved mercury (Hg) by USEPA method 1631E
- Total and dissolved metals by USEPA method 1640
- Total suspended solids (TSS) by Standard Method (SM) 2540D

ECI sample data group (SDG) numbers 14-10-0602, 14-10-1157, 14-09-2205, 14-09-2270, 14-10-0029, 14-11-0041, and 14-11-0050 were reviewed in this report. Sample IDs, matrices, and analyses conducted are presented in Table 1.

Table 1
Sample IDs, Matrices, and Analyses

| Sample ID | Lab ID | Matrix | Analyses |
|----------------------|--------------|--------|------------------------------------|
| CP-FF-CH-C1-20141008 | 14-10-0602-1 | Tissue | Pesticides, PCBs, lipids, moisture |
| CP-FF-CH-C2-20141008 | 14-10-0602-2 | Tissue | Pesticides, PCBs, lipids, moisture |
| CP-FF-CH-C3-20141008 | 14-10-0602-3 | Tissue | Pesticides, PCBs, lipids, moisture |
| CP-FF-WC-C1-20141008 | 14-10-0602-4 | Tissue | Pesticides, PCBs, lipids, moisture |
| CP-FF-WC-C2-20141008 | 14-10-0602-5 | Tissue | Pesticides, PCBs, lipids, moisture |
| CP-FF-WC-C3-20141008 | 14-10-0602-6 | Tissue | Pesticides, PCBs, lipids, moisture |

| Sample ID | Lab ID | Matrix | Analyses |
|-----------------------|---------------|--------|------------------------------------|
| CP-WO-WS-C1-20141008 | 14-10-0602-7 | Tissue | Pesticides, PCBs, lipids, moisture |
| CP-WO-WS-C2-20141008 | 14-10-0602-8 | Tissue | Pesticides, PCBs, lipids, moisture |
| CP-WO-WS-C3-20141008 | 14-10-0602-9 | Tissue | Pesticides, PCBs, lipids, moisture |
| SP-FF-CH-C1-20141008 | 14-10-0602-10 | Tissue | Pesticides, PCBs, lipids, moisture |
| SP-FF-CH-C2-20141008 | 14-10-0602-11 | Tissue | Pesticides, PCBs, lipids, moisture |
| SP-FF-CH-C3-20141008 | 14-10-0602-12 | Tissue | Pesticides, PCBs, lipids, moisture |
| SP-WO-PP-C1-20141008 | 14-10-0602-13 | Tissue | Pesticides, PCBs, lipids, moisture |
| SP-WO-PP-C2-20141008 | 14-10-0602-14 | Tissue | Pesticides, PCBs, lipids, moisture |
| SP-WO-PP-C3-20141008 | 14-10-0602-15 | Tissue | Pesticides, PCBs, lipids, moisture |
| SP-FF-WC-C1-20141008 | 14-10-0602-16 | Tissue | Pesticides, PCBs, lipids, moisture |
| SP-FF-WC-C2-20141008 | 14-10-0602-17 | Tissue | Pesticides, PCBs, lipids, moisture |
| SP-FF-WC-C3-20141008 | 14-10-0602-18 | Tissue | Pesticides, PCBs, lipids, moisture |
| OB-FF-CH-C1-20141008 | 14-10-0602-19 | Tissue | Pesticides, PCBs, lipids, moisture |
| OB-FF-CH-C2-20141008 | 14-10-0602-20 | Tissue | Pesticides, PCBs, lipids, moisture |
| OB-FF-CH-C3-20141008 | 14-10-0602-21 | Tissue | Pesticides, PCBs, lipids, moisture |
| OB-FF-WC-C1-20141008 | 14-10-0602-22 | Tissue | Pesticides, PCBs, lipids, moisture |
| OB-FF-WC-C2-20141008 | 14-10-0602-23 | Tissue | Pesticides, PCBs, lipids, moisture |
| OB-FF-WC-C3-20141008 | 14-10-0602-24 | Tissue | Pesticides, PCBs, lipids, moisture |
| OB-WO-WS-C1-20141008 | 14-10-0602-25 | Tissue | Pesticides, PCBs, lipids, moisture |
| OB-WO-WS-C2-20141008 | 14-10-0602-26 | Tissue | Pesticides, PCBs, lipids, moisture |
| OB-WO-WS-C3-20141008 | 14-10-0602-27 | Tissue | Pesticides, PCBs, lipids, moisture |
| CS-FF-WC-C1-20141015 | 14-10-1157-1 | Tissue | Pesticides, PCBs, lipids, moisture |
| CS-FF-WC-C2-20141015 | 14-10-1157-2 | Tissue | Pesticides, PCBs, lipids, moisture |
| CS-FF-WC-C3-20141015 | 14-10-1157-3 | Tissue | Pesticides, PCBs, lipids, moisture |
| LE-RW-22-G-S-20140926 | 14-09-2205-1 | Water | Pesticides, PCBs, Hg, metals, TSS |
| LE-RW-22-G-M-20140926 | 14-09-2205-2 | Water | TSS |
| LE-RW-22-G-B-20140926 | 14-09-2205-3 | Water | TSS |
| LE-RW-21-G-S-20140926 | 14-09-2205-4 | Water | Pesticides, PCBs, Hg, metals, TSS |
| LE-RW-21-G-M-20140926 | 14-09-2205-5 | Water | TSS |
| LE-RW-21-G-B-20140926 | 14-09-2205-6 | Water | TSS |
| SP-RW-18-G-S-20140926 | 14-09-2205-7 | Water | Pesticides, PCBs, Hg, metals, TSS |
| SP-RW-18-G-M-20140926 | 14-09-2205-8 | Water | TSS |
| SP-RW-18-G-B-20140926 | 14-09-2205-9 | Water | TSS |
| SP-RW-19-G-S-20140926 | 14-09-2205-10 | Water | Pesticides, PCBs, Hg, metals, TSS |
| SP-RW-19-G-M-20140926 | 14-09-2205-11 | Water | TSS |
| SP-RW-19-G-B-20140926 | 14-09-2205-12 | Water | TSS |
| SP-RW-20-G-S-20140926 | 14-09-2205-13 | Water | Pesticides, PCBs, Hg, metals, TSS |
| SP-RW-20-G-M-20140926 | 14-09-2205-14 | Water | TSS |
| SP-RW-20-G-B-20140926 | 14-09-2205-15 | Water | TSS |
| OB-RW-17-G-S-20140926 | 14-09-2205-16 | Water | Pesticides, PCBs, Hg, metals, TSS |
| OB-RW-17-G-M-20140926 | 14-09-2205-17 | Water | TSS |

| Sample ID | Lab ID | Matrix | Analyses |
|-------------------------|---------------|--------|-----------------------------------|
| OB-RW-17-G-B-20140926 | 14-09-2205-18 | Water | TSS |
| OB-RW-1017-G-M-20140926 | 14-09-2205-19 | Water | TSS |
| OB-RW-16-G-S-20140928 | 14-09-2270-1 | Water | Pesticides, PCBs, Hg, metals, TSS |
| OB-RW-16-G-M-20140928 | 14-09-2270-2 | Water | TSS |
| OB-RW-16-G-B-20140928 | 14-09-2270-3 | Water | TSS |
| IB-RW-12-G-S-20140928 | 14-09-2270-4 | Water | Pesticides, PCBs, Hg, metals, TSS |
| IB-RW-12-G-M-20140928 | 14-09-2270-5 | Water | TSS |
| IB-RW-12-G-B-20140928 | 14-09-2270-6 | Water | TSS |
| IB-RW-13-G-S-20140928 | 14-09-2270-7 | Water | Pesticides, PCBs, Hg, metals, TSS |
| IB-RW-13-G-B-20140928 | 14-09-2270-8 | Water | TSS |
| IB-RW-13-G-M-20140928 | 14-09-2270-9 | Water | TSS |
| IB-RW-14-G-S-20140928 | 14-09-2270-10 | Water | Pesticides, PCBs, Hg, metals, TSS |
| IB-RW-14-G-M-20140928 | 14-09-2270-11 | Water | TSS |
| IB-RW-14-G-B-20140928 | 14-09-2270-12 | Water | TSS |
| IB-RW-15-G-S-20140928 | 14-09-2270-13 | Water | Pesticides, PCBs, Hg, metals, TSS |
| IB-RW-15-G-M-20140928 | 14-09-2270-14 | Water | TSS |
| IB-RW-15-G-B-20140928 | 14-09-2270-15 | Water | TSS |
| CB-RW-11-G-S-20140930 | 14-10-0029-1 | Water | Pesticides, PCBs, Hg, metals, TSS |
| CB-RW-11-G-M-20140930 | 14-10-0029-2 | Water | TSS |
| CB-RW-11-G-B-20140930 | 14-10-0029-3 | Water | TSS |
| OA-RW-09-G-S-20140930 | 14-10-0029-4 | Water | Pesticides, PCBs, Hg, metals, TSS |
| OA-RW-09-G-M-20140930 | 14-10-0029-5 | Water | TSS |
| OA-RW-09-G-B-20140930 | 14-10-0029-6 | Water | TSS |
| OA-RW-08-G-S-20140930 | 14-10-0029-7 | Water | Pesticides, PCBs, Hg, metals, TSS |
| OA-RW-1008-G-S-20140930 | 14-10-0029-8 | Water | Pesticides, PCBs, Hg, metals, TSS |
| OA-RW-08-G-M-20140930 | 14-10-0029-9 | Water | TSS |
| OA-RW-08-G-B-20140930 | 14-10-0029-10 | Water | TSS |
| CS-RW-01-G-S-20140930 | 14-10-0029-11 | Water | Pesticides, PCBs, Hg, metals, TSS |
| CS-RW-01-G-M-20140930 | 14-10-0029-12 | Water | TSS |
| CS-RW-01-G-B-20140930 | 14-10-0029-13 | Water | TSS |
| EB-20140930 | 14-10-0029-14 | Water | Pesticides, PCBs, Hg, metals, TSS |
| FB-20140930 | 14-10-0029-15 | Water | Metals, Hg |
| IA-RW-02-G-S-20140930 | 14-10-0029-16 | Water | Pesticides, PCBs, Hg, metals, TSS |
| IA-RW-02-G-M-20140930 | 14-10-0029-17 | Water | TSS |
| IA-RW-02-G-B-20140930 | 14-10-0029-18 | Water | TSS |
| IA-RW-04-G-S-20140930 | 14-10-0029-19 | Water | Pesticides, PCBs, Hg, metals, TSS |
| IA-RW-04-G-M-20140930 | 14-10-0029-20 | Water | TSS |
| IA-RW-04-G-B-20140930 | 14-10-0029-21 | Water | TSS |
| IA-RW-03-G-S-20140930 | 14-10-0029-22 | Water | Pesticides, PCBs, Hg, metals, TSS |
| IA-RW-03-G-M-20140930 | 14-10-0029-23 | Water | TSS |
| IA-RW-03-G-B-20140930 | 14-10-0029-24 | Water | TSS |

| Sample ID | Lab ID | Matrix | Analyses |
|-------------------------|---------------|--------|-----------------------------------|
| IA-RW-06-G-S-20140930 | 14-10-0029-25 | Water | Pesticides, PCBs, Hg, metals, TSS |
| IA-RW-06-G-M-20140930 | 14-10-0029-26 | Water | TSS |
| IA-RW-1006-G-M-20140930 | 14-10-0029-27 | Water | TSS |
| IA-RW-06-G-B-20140930 | 14-10-0029-28 | Water | TSS |
| FH-RW-07-G-S-20140930 | 14-10-0029-29 | Water | Pesticides, PCBs, Hg, metals, TSS |
| FH-RW-07-G-M-20140930 | 14-10-0029-30 | Water | TSS |
| FH-RW-07-G-B-20140930 | 14-10-0029-31 | Water | TSS |
| IA-RW-05-G-S-20140930 | 14-10-0029-32 | Water | Pesticides, PCBs, Hg, metals, TSS |
| IA-RW-05-G-M-20140930 | 14-10-0029-33 | Water | TSS |
| IA-RW-05-G-B-20140930 | 14-10-0029-34 | Water | TSS |
| CM-RW-10-G-S-20140930 | 14-10-0029-35 | Water | Pesticides, PCBs, Hg, metals, TSS |
| CM-RW-10-G-M-20140930 | 14-10-0029-36 | Water | TSS |
| CM-RW-10-G-B-20140930 | 14-10-0029-37 | Water | TSS |
| IB-RW-12-G-S-20141102 | 14-11-0041-1 | Water | Pesticides, PCBs, Hg, metals, TSS |
| IB-RW-12-G-M-20141102 | 14-11-0041-2 | Water | TSS |
| IB-RW-1012-G-M-20141102 | 14-11-0041-3 | Water | TSS |
| IB-RW-12-G-B-20141102 | 14-11-0041-4 | Water | TSS |
| IB-RW-13-G-S-20141102 | 14-11-0041-5 | Water | Pesticides, PCBs, Hg, metals, TSS |
| IB-RW-13-G-M-20141102 | 14-11-0041-6 | Water | TSS |
| IB-RW-13-G-B-20141102 | 14-11-0041-7 | Water | TSS |
| IB-RW-14-G-S-20141102 | 14-11-0041-8 | Water | Pesticides, PCBs, Hg, metals, TSS |
| IB-RW-14-G-M-20141102 | 14-11-0041-9 | Water | TSS |
| IB-RW-14-G-B-20141102 | 14-11-0041-10 | Water | TSS |
| IB-RW-15-G-S-20141102 | 14-11-0041-11 | Water | Pesticides, PCBs, Hg, metals, TSS |
| IB-RW-15-G-M-20141102 | 14-11-0041-12 | Water | TSS |
| IR-RW-15-G-B-20141102 | 14-11-0041-13 | Water | TSS |
| OB-RW-17-G-S-20141102 | 14-11-0041-14 | Water | Pesticides, PCBs, Hg, metals, TSS |
| OB-RW-17-G-M-20141102 | 14-11-0041-15 | Water | TSS |
| OB-RW-17-G-B-20141102 | 14-11-0041-16 | Water | TSS |
| OB-RW-16-G-S-20141102 | 14-11-0041-17 | Water | Pesticides, PCBs, Hg, metals, TSS |
| OB-RW-16-G-M-20141102 | 14-11-0041-18 | Water | TSS |
| OB-RW-16-G-B-20141102 | 14-11-0041-19 | Water | TSS |
| OA-RW-08-G-S-20141102 | 14-11-0041-20 | Water | Pesticides, PCBs, Hg, metals, TSS |
| OA-RW-08-G-M-20141102 | 14-11-0041-21 | Water | TSS |
| OA-RW-08-G-B-20141102 | 14-11-0041-22 | Water | TSS |
| OA-RW-09-G-S-20141102 | 14-11-0041-23 | Water | Pesticides, PCBs, Hg, metals, TSS |
| OA-RW-09-G-M-20141102 | 14-11-0041-24 | Water | TSS |
| OA-RW-09-G-B-20141102 | 14-11-0041-25 | Water | TSS |
| CS-RW-01-G-S-20141102 | 14-11-0041-26 | Water | Pesticides, PCBs, Hg, metals, TSS |
| CS-RW-01-G-M-20141102 | 14-11-0041-27 | Water | TSS |
| CS-RW-01-G-B-20141102 | 14-11-0041-28 | Water | TSS |

| Sample ID | Lab ID | Matrix | Analyses |
|-------------------------|---------------|-----------|-----------------------------------|
| IA-RW-02-G-S-20141102 | 14-11-0041-29 | Water | Pesticides, PCBs, Hg, metals, TSS |
| IA-RW-02-G-M-20141102 | 14-11-0041-30 | Water | TSS |
| IA-RW-02-G-B-20141102 | 14-11-0041-31 | Water | TSS |
| IA-RW-03-G-S-20141102 | 14-11-0041-32 | Water | Pesticides, PCBs, Hg, metals, TSS |
| IA-RW-03-G-M-20141102 | 14-11-0041-33 | Water | TSS |
| IA-RW-03-G-B-20141102 | 14-11-0041-34 | Water | TSS |
| IA-RW-04-G-S-20141102 | 14-11-0041-35 | Water | Pesticides, PCBs, Hg, metals, TSS |
| IA-RW-1004-G-S-20141102 | 14-11-0041-36 | Water | TSS |
| IA-RW-04-G-M-20141102 | 14-11-0041-37 | Water | TSS |
| IA-RW-04-G-B-20141102 | 14-11-0041-38 | Water | TSS |
| IA-RW-06-G-S-20141102 | 14-11-0041-39 | Water | Pesticides, PCBs, Hg, metals, TSS |
| IA-RW-06-G-M-20141102 | 14-11-0041-40 | Water | TSS |
| IA-RW-06-G-B-20141102 | 14-11-0041-41 | Water | TSS |
| IA-RW-05-G-S-20141102 | 14-11-0041-42 | Water | Pesticides, PCBs, Hg, metals, TSS |
| IA-RW-05-G-M-20141102 | 14-11-0041-43 | Water | TSS |
| IA-RW-05-G-B-20141102 | 14-11-0041-44 | Water | TSS |
| FH-RW-07-G-S-20141102 | 14-11-0041-45 | Water | Pesticides, PCBs, Hg, metals, TSS |
| FH-RW-07-G-M-20141102 | 14-11-0041-46 | Water | TSS |
| FH-RW-07-G-B-20141102 | 14-11-0041-47 | Water | TSS |
| CM-RW-10-G-S-20141102 | 14-11-0041-48 | Water | Pesticides, PCBs, Hg, metals, TSS |
| CM-RW-10-G-M-20141102 | 14-11-0041-49 | Water | TSS |
| CM-RW-10-G-B-20141102 | 14-11-0041-50 | Water | TSS |
| FB-20141102 | 14-11-0041-51 | Water | Metals, Hg |
| CB-RW-11-G-S-20141102 | 14-11-0041-52 | Water | Pesticides, PCBs, Hg, metals, TSS |
| CB-RW-11-G-M-20141102 | 14-11-0041-53 | Water | TSS |
| CB-RW-11-G-B-20141102 | 14-11-0041-54 | Water | TSS |
| LE-RW-22-G-S-20141102 | 14-11-0050-1 | 11/2/2014 | Pesticides, PCBs, Hg, metals, TSS |
| LE-RW-22-G-M-20141102 | 14-11-0050-2 | 11/2/2014 | TSS |
| LE-RW-22-G-B-20141102 | 14-11-0050-3 | 11/2/2014 | TSS |
| LE-RW-21-G-S-20141102 | 14-11-0050-4 | 11/2/2014 | TSS |
| LE-RW-21-G-M-20141102 | 14-11-0050-5 | 11/2/2014 | TSS |
| LE-RW-21-G-B-20141102 | 14-11-0050-6 | 11/2/2014 | TSS |
| LE-RW-1021-G-S-20141102 | 14-11-0050-7 | 11/2/2014 | Pesticides, PCBs, Hg, metals, TSS |
| SP-RW-18-G-S-20141102 | 14-11-0050-8 | 11/2/2014 | Pesticides, PCBs, Hg, metals, TSS |
| SP-RW-18-G-M-20141102 | 14-11-0050-9 | 11/2/2014 | TSS |
| SP-RW-18-G-B-20141102 | 14-11-0050-10 | 11/2/2014 | TSS |
| SP-RW-20-G-S-20141102 | 14-11-0050-11 | 11/2/2014 | Pesticides, PCBs, Hg, metals, TSS |
| SP-RW-20-G-M-20141102 | 14-11-0050-12 | 11/2/2014 | TSS |
| SP-RW-20-G-B-20141102 | 14-11-0050-13 | 11/2/2014 | TSS |
| SP-RW-19-G-S-20141102 | 14-11-0050-14 | 11/2/2014 | Pesticides, PCBs, Hg, metals, TSS |
| SP-RW-19-G-M-20141102 | 14-11-0050-15 | 11/2/2014 | TSS |

| Sample ID | Lab ID | Matrix | Analyses |
|------------------------|---------------|-----------|------------------------------|
| SP-RW-19-G-B-201411102 | 14-11-0050-16 | 11/2/2014 | TSS |
| EB201411102 | 14-11-0050-17 | 11/2/2014 | Pesticides, PCBs, Hg, metals |

Data Validation and Qualifications

The following comments refer to the laboratory's performance in meeting the quality assurance/quality control (QA/QC) guidelines outlined in the analytical procedures and data quality objective sections of the Sampling and Analysis Plans (SAP; Anchor QEA 2014a and 2014b). Laboratory results were reviewed using the following guidelines:

- *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review* (USEPA 2004)
- *USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review* (USEPA 1999)
- *USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review* (USEPA 2008)

Laboratory and method QC criteria were also used as stated in USEPA 1986 (SW-846, Third Edition), *Test Methods for Evaluating Solid Waste: Physical/Chemical Methods*, update 1, August 1993; update II, January 1995; update IIA, February 1994; update IIB, August 1995; update III, June 1997; update IIIA, May 1999; update IIIB, June 2008; update IVA and IVB, January 2008. Unless noted in this report, laboratory results for the samples listed above were within QC criteria.

Field Documentation

Field documentation was checked for completeness and accuracy. The chain-of-custody forms were signed by ECI at the time of sample receipt; the samples were received within the recommended temperature range and in good condition.

Holding Times and Sample Preservation

Samples were appropriately preserved and analyzed within holding times with the exceptions of several TSS analyses, which were conducted a few hours past the 7-day hold time. Results are not expected to be significantly impacted so no data were qualified.

Laboratory Method Blanks

Laboratory method blanks were analyzed at the required frequencies. All method blanks were free of target analytes with the following exceptions:

- SDG 14-09-2205 Metals - Cadmium and zinc in the total metals method blank and cadmium, lead, and zinc in the dissolved metals method blank were detected at levels between the method detection limit (MDL) and the method reporting limit (MRL). Associated detected sample results that were not significantly greater than (>5x) the concentration in the method blank have been qualified as non-detects.
- SDG 14-10-0029 Mercury – Mercury was detected between the MDL and the MRL in one of the method blanks analyzed in association with the dissolved metals analyses. All associated sample results were above detection but not significantly greater than (>5x) the level detected in the method blank and have been qualified as non-detects.
- SDG 14-11-0041 Metals – Copper and zinc were detected at levels between the MDL and the MRL in the method blanks analyzed in association with the total and dissolved metals analyses. Five associated detected sample results were not significantly greater than (>5x) the level detected in the method blank and have been qualified as non-detects.
- SDG 14-11-0050 Metals – Mercury, cadmium, copper, and zinc were detected between the MDL and the MRL in the method blanks analyzed in association with the total and dissolved metals analyses. Sample results above detection but not significantly greater than (>5x) the levels detected in the method blanks and have been qualified as non-detects.

Field Quality Control

Field Blanks and Equipment Blanks

Two field blanks and two equipment rinsate blanks were collected and analyzed in association with these sample sets. The blank results were below detection with the exceptions of some low-level metals detections. These are summarized in Table 2.

Table 2**Field Blank and Equipment Blank Detections Summary**

| Sample | Analyte | Concentration |
|-------------|--------------------|----------------|
| EB-20140930 | Dissolved copper | 0.0168J µg/L |
| | Dissolved mercury | 0.000337J µg/L |
| | Dissolved zinc | 0.862 µg/L |
| | Total mercury | 0.000383J µg/L |
| | Total zinc | 0.140J µg/L |
| FB-20140930 | Dissolved chromium | 0.201J µg/L |
| | Dissolved mercury | 0.000351J µg/L |
| | Dissolved zinc | 0.107J µg/L |
| | Total copper | 0.0442 µg/L |
| | Total mercury | 0.000364J µg/L |
| FB-20141102 | Total zinc | 0.180J µg/L |
| | Dissolved mercury | 0.000380J µg/L |
| EB20141102 | Total mercury | 0.000596B µg/L |
| | Total copper | 0.339B µg/L |
| | Total lead | 0.0779 µg/L |
| | Dissolved copper | 0.226B µg/L |
| | Dissolved lead | 0.0333 µg/L |

No sample results were qualified based on field or equipment blank results.

Field Duplicates

Six water field duplicates were collected in association with these sample sets. Detected results are summarized in Table 3.

Table 3
Field Duplicate Summary

| Analyte | OB-RW-17-G-M-20140926 | OB-RW-1017-G-M-20140926 | RPD | Difference |
|---------|-----------------------|-------------------------|-----|------------|
| TSS | 1.1 mg/L | 1.1 mg/L | -- | 0 |

| Analyte | IA-RW-06-G-M-20140930 | IA-RW-1006-G-M-20140930 | RPD | Difference |
|---------|-----------------------|-------------------------|-----|------------|
| TSS | 1.5 mg/L | 1.7 mg/L | -- | 0.2 |

| Analyte | OA-RW-08-G-S-20140930 | OA-RW-1008-G-S-20140930 | RPD | Difference |
|--------------------|-----------------------|-------------------------|-----|------------|
| Dissolved cadmium | 0.0125J µg/L | 0.0373 µg/L | -- | 0.0248 |
| Dissolved chromium | 0.387J µg/L | 0.391J µg/L | -- | 0.004 |
| Dissolved copper | 0.0667 µg/L | 0.257 µg/L | -- | 0.1903 |
| Dissolved lead | 0.0135U µg/L | 0.0827 µg/L | -- | 0.0827 |
| Dissolved zinc | 0.29J µg/L | 3.36 µg/L | -- | 3.07 |

| Analyte | OA-RW-08-G-S-20140930 | OA-RW-1008-G-S-20140930 | RPD | Difference |
|----------------|-----------------------|-------------------------|-----|------------|
| Total cadmium | 0.0258J µg/L | 0.0272J µg/L | -- | 0.0014 |
| Total chromium | 0.399J µg/L | 0.423J µg/L | -- | 0.024 |
| Total copper | 0.414 µg/L | 0.273 µg/L | 41% | -- |
| Total lead | 0.595 µg/L | 0.124 µg/L | -- | 0.471 |
| Total mercury | 0.000473J µg/L | 0.000427J µg/L | -- | 0.000046 |
| Total zinc | 2.76 µg/L | 3.11 µg/L | 12% | -- |

| Analyte | IB-RW-12-G-M-20141102 | IB-RW-1012-G-M-20141102 | RPD | Difference |
|---------|-----------------------|-------------------------|-----|------------|
| TSS | 1.1 mg/L | 1.1 mg/L | -- | 0 |

| Analyte | IA-RW-04-G-S-20141102 | IA-RW-1004-G-S-20141102 | RPD | Difference |
|---------|-----------------------|-------------------------|-----|------------|
| TSS | 1.1 mg/L | 1.0U mg/L | -- | 1.1 |

| Analyte | LE-RW-21-G-S-20141102 | LE-RW-1021-G-S-20141102 | RPD | Difference |
|--------------------|-----------------------|-------------------------|-----|------------|
| Dissolved cadmium | 0.0821B µg/L | 0.0663B µg/L | 21% | -- |
| Dissolved chromium | 0.365J µg/L | 0.208J µg/L | -- | 0.157 |
| Dissolved copper | 4.48B µg/L | 1.58B µg/L | -- | 2.9 |
| Dissolved lead | 0.263 µg/L | 0.0993 µg/L | 90% | -- |
| Dissolved mercury | 0.000992B µg/L | 0.000752B µg/L | 28% | -- |
| Dissolved zinc | 23.2B µg/L | 10.2B µg/L | -- | 13 |
| Total cadmium | 0.0913B µg/L | 0.0717B µg/L | 24% | -- |
| Total chromium | 0.626 µg/L | 0.436J µg/L | 36% | -- |
| Total copper | 6.76B µg/L | 3.18B µg/L | -- | 3.58 |
| Total lead | 1.99 µg/L | 1.37 µg/L | -- | 0.62 |
| Total mercury | 0.00419B µg/L | 0.00267B µg/L | 44% | -- |
| Total zinc | 28.6B µg/L | 14.3B µg/L | -- | 14.3 |

Results are within the project required control limit of less than or equal to 25% relative percent difference (RPD) value when both results are > 5x MRL, or the difference between the results is less than or equal to 2x MRL if the results are ≤ 5x MRL with some exceptions. Total and dissolved copper, total and dissolved lead, and dissolved zinc results in the duplicate analysis of sample OA-RW-08-G-S-20140930 and all detected results in the duplicate analysis of sample LE-RW-21-G-S-20141102 except for total and dissolved cadmium and dissolved chromium exceeded control limits. No data were qualified based on field duplicate results.

Surrogate Recoveries

Surrogate recoveries were within laboratory control limits with the exception of dibutylchloroendate in the pesticide analysis of sample CS-FF-WC-C1-20141015. The surrogate recovered above the control limit and associated detected sample results have been qualified “J” to indicate a potentially high bias.

Column Confirmation

Detected pesticide results analyzed by method 8081A met second column confirmation requirements.

Laboratory Control Sample and Laboratory Control Sample Duplicate

Laboratory control samples (LCS) and laboratory control sample duplicates (LCSD) were analyzed at the required frequencies. All LCS/LCSD analyses resulted in recoveries and/or RPD values within project-required control limits with the following exceptions:

- SDG 14-10-0602:
 - Pesticides – Alpha chlordane recovered below the control limit in the LCS reported in batch 141011L04 and 4,4'-DDD, 4,4'-DDE, and gamma chlordane recovered below the control limit in the associated LCSD. Associated sample results have been qualified “J” or “UJ” to indicate a potentially low bias.
 - PCBs – All spiked PCBs recovered below the control limit in the LCSD reported in batch 141011L04 and the LCS/LCSD RPD values for this batch were above the control limit for twelve PCBs. All associated results have been qualified “J” or “UJ” to indicate a potentially low bias.
 - SDG 14-10-1157:
 - Pesticides – The LCS and LCSD recovered below the control limit for alpha-chlordane, 4,4'-DDD, 4,4'-DDT, and gamma-chlordane. The LCS recovered below the control limit for 4,4'-DDE. Associated sample results have been qualified “J” or “UJ” to indicate a potentially low bias.
 - PCBs – Seven PCBs recovered below the control limit in the LCSD. Associated sample results have been qualified “J” or “UJ” to indicate a potentially low bias. The LCS/LCSD RPD value was above the control limit for eight PCBs. Associated detected sample results have been qualified “J” to indicate a potentially low bias.
-

Matrix Spike and Matrix Spike Duplicate

Matrix spike (MS) and matrix spike duplicate (MSD) samples were analyzed at required frequencies or LCS/LCSDs were analyzed in place of MS/MSD samples. Some MS/MSD results were reported for non-project samples and no data were qualified based on these results. MS/MSD recoveries and/or RPD values were within project-required control limits with the following exceptions:

- SDG 14-10-0602:
 - Pesticides –
 - The MS and MSD analyzed on sample OB-FF-WC-C3-20141008 recovered below the control limit for alpha-chlordane, 4,4'-DDD, and gamma chlordane. The MS also recovered below the control limit for 4,4'-DDT. Associated parent sample results have been qualified “J” to indicate a potentially low bias. 4,4'-DDE did not recover in either the MS or MSD analyzed on the same sample, however, the parent sample concentration was significantly greater than (>4x) the spike concentration so the result was not qualified. Dieldrin recovered above the control limit in the MS and MSD, however, this analyte was not detected in the parent sample so the result was not qualified.
 - The MS and MSD analyzed on sample SP-FF-CH-C1-20141008 recovered below the control limit for alpha-chlordane, 4,4'-DDT, dieldrin, and gamma chlordane. The MSD analyzed on this sample recovered below the control limit for 4,4'-DDD and 4,4'-DDE. In addition, the MS/MSD RPD values for 4,4'-DDD and 4,4'-DDE were above the control limit. Associated parent sample results have been qualified “J” or “UJ” to indicate a potentially low bias.
 - The MS and MSD analyzed on sample CP-FF-CH-C1-20141008 recovered below the control limit for alpha-chlordane, 4,4'-DDD and gamma chlordane. The MSD analyzed on this sample recovered below the control limit for 4,4'-DDE. In addition, the MS/MSD RPD value for dieldrin was above the control limit. Associated parent sample results have been qualified “J” or “UJ” to indicate a potentially low bias.
 - PCBs –
 - The MSD analyzed on sample CP-FF-CH-C1-20141008 recovered below the control limit and the MS/MSD RPD value was above the
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- control limit for all spiked analytes. All associated parent sample results have been qualified “J” or “UJ” to indicate a potentially low bias.
- Five PCBs recovered below the control limit in the MS analyzed on sample OB-FF-WC-C3-20141008 and eleven PCBs recovered below the control limit in the MSD. Associated parent sample results have been qualified “J” or “UJ” to indicate a potentially low bias.
- SDG 14-10-1157:
 - Pesticides – The MS and MSD analyzed on sample CS-FF-WC-C1-20141015 did not recover for 4,4'-DDE, however the sample concentration was significantly greater than (>4x) the spike recovery so the result was not qualified. This MS/MSD set did not recover or recovered below the control limit for alpha-chlordane, 4,4'-DDD, 4,4'-DDT, and gamma chlordane and the MS/MSD RPD values were above the control limit for all spiked analytes. All associated parent sample results have been qualified “J” or “UJ” to indicate a potentially low bias.
 - PCBs – The MS analyzed on sample CS-FF-WC-C2-20141015 recovered below the control limit for eleven spiked PCBs and the MS/MSD RPD values were above the control limit for three PCBs. Associated parent sample results have been qualified “J” or “UJ” to indicate a potentially low bias.
 - SDG 14-09-2205 Metals – Copper recovered above the control limit in the MS and MSD analyzed on sample LE-RW-22-G-S-20140926. Associated sample results were all detected and have been qualified “J” to indicate a potentially high bias.
 - SDG 14-11-0041 Metals – Total copper and total zinc recovered above the control limit in the MS and MSD analyzed on sample OB-RW-17-G-S-20141102. Associated detected sample results have been qualified “J” to indicate a potentially high bias.
 - SDG 14-11-0050 Metals – Total copper recovered above the control limit in the MS and MSD analyzed on sample LE-RW-22-G-S-20141102, however, the sample concentration was significantly greater than (>4x) the spike level so no data were qualified. Total chromium recovered above the control limit in the MSD. Associated detected sample results have been qualified “J” to indicate a potentially high bias. Total lead recovered below the control limit in the MS. Associated sample results have been qualified “J” to indicate a potentially low bias.
-

Laboratory Duplicates

Laboratory duplicates were analyzed at the required frequencies or MSDs or LCSDs were analyzed in place of lab duplicates. If the sample or duplicate result is less than five times the method reporting limit (MRL), than the RPD control limit is no longer appropriate. Sample results within \pm MRL for water matrices and \pm 2 times the MRL for solid matrices is the control limit in these situations. All duplicate results were within required limits with the following exceptions:

- SDG 14-10-0029 Metals – The difference between the dissolved lead results in the duplicate analyses of sample IA-RW-03-G-S-20140930 was above the control limit. Associated detected sample results have been qualified “J” to indicate they are estimated.
- SDG 14-10-0050 Conventionals – The difference between the TSS results in the duplicate analyses of sample SP-RW-19-G-B-20141102 was above the control limit. Associated detected sample results have been qualified “J” to indicate they are estimated.

Method Reporting Limits

Reporting limits were acceptable as reported. All values were reported using the laboratory reporting limits. Values were reported as undiluted, or when reported as diluted, the reporting limit accurately reflects the dilution factor.

Overall Assessment

As was determined by this evaluation, the laboratory followed the specified analytical methods and all requested sample analyses were completed. Accuracy was acceptable as demonstrated by the surrogate, LCS/LCSD, and MS/MSD recovery values, with the exceptions noted above. Precision was also acceptable as demonstrated by the field and laboratory duplicates, MS/MSD, and LCS/LCSD RPD values, with the exceptions noted above. Most data were acceptable as reported; all other data are acceptable as qualified. Table 4 summarizes the qualifiers applied to sample results reviewed in this report.

Data Qualifier Definitions

- U Indicates the compound or analyte was analyzed for but not detected at or above the specified limit.
 - J Indicates an estimated value.
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- R Indicates data is rejected and unusable
- UJ Indicates the compound or analyte was analyzed for but not detected and the specified limit reported is estimated
- DNR Do not report

Table 4
Data Qualification Summary

| Sample ID | Parameter | Analyte | Reported Result | Qualified Result | Reason |
|-----------------------|--------------|-------------------|-----------------|------------------|--|
| CB-RW-11-G-S-20140930 | Metals | Dissolved lead | 0.236 µg/L | 0.236J µg/L | Lab duplicate result outside of control limit |
| | | Dissolved mercury | 0.000456BJ µg/L | 0.000456U µg/L | Method blank contamination |
| | | Total copper | 2.42B µg/L | 2.42J µg/L | MS/MSD %R above control limit |
| | | Total zinc | 8.87B µg/L | 8.87J µg/L | |
| CM-RW-10-G-S-20140930 | Metals | Dissolved lead | 0.0704 µg/L | 0.0704J µg/L | Lab duplicate result outside of control limit |
| | | Total copper | 4.84B µg/L | 4.84J µg/L | MS/MSD %R above control limit |
| | | Total zinc | 16.4B µg/L | 16.4J µg/L | |
| CP-FF-CH-C1-20141008 | PCBs | PCB018 | 0.071J µg/kg | 0.071J µg/kg | MSD %R below control limit, MS/MSD RPD value above control limit |
| | | PCB028 | 0.070J µg/kg | 0.070J µg/kg | |
| | | PCB037 | 0.035U µg/kg | 0.035UJ µg/kg | |
| | | PCB044 | 0.092U µg/kg | 0.092UJ µg/kg | |
| | | PCB049 | 0.27 µg/kg | 0.27J µg/kg | |
| | | PCB052 | 0.28 µg/kg | 0.28J µg/kg | |
| | | PCB066 | 0.28 µg/kg | 0.28J µg/kg | |
| | | PCB070 | 0.13J µg/kg | 0.13J µg/kg | |
| | | PCB074 | 0.14J µg/kg | 0.14J µg/kg | |
| | | PCB077 | 0.085U µg/kg | 0.085UJ µg/kg | |
| | | PCB081 | 0.064U µg/kg | 0.064UJ µg/kg | |
| | | PCB087 | 0.34 µg/kg | 0.34J µg/kg | |
| | | PCB099 | 0.49 µg/kg | 0.49J µg/kg | |
| | | PCB101 | 0.82 µg/kg | 0.82J µg/kg | |
| | | PCB105 | 0.28 µg/kg | 0.28J µg/kg | |
| | | PCB110 | 0.54 µg/kg | 0.54J µg/kg | |
| | | PCB114 | 0.036U µg/kg | 0.036UJ µg/kg | |
| | | PCB118 | 0.89 µg/kg | 0.89J µg/kg | |
| PCB119 | 0.046U µg/kg | 0.046UJ µg/kg | | | |
| PCB123 | 0.095J µg/kg | 0.095J µg/kg | | | |
| PCB126 | 0.034U µg/kg | 0.034UJ µg/kg | | | |

| Sample ID | Parameter | Analyte | Reported Result | Qualified Result | Reason |
|----------------------|--------------|-----------------|-----------------|------------------|--|
| | | PCB128 | 0.21 µg/kg | 0.21J µg/kg | |
| | | PCB132/153 | 1.9 µg/kg | 1.9J µg/kg | |
| | | PCB138/158 | 1.3 µg/kg | 1.3J µg/kg | |
| | | PCB149 | 0.58 µg/kg | 0.58J µg/kg | |
| | | PCB151 | 0.21 µg/kg | 0.21J µg/kg | |
| | | PCB156 | 0.11J µg/kg | 0.11J µg/kg | |
| | | PCB157 | 0.053J µg/kg | 0.053J µg/kg | |
| | | PCB167 | 0.088J µg/kg | 0.088J µg/kg | |
| | | PCB168 | 0.045U µg/kg | 0.045UJ µg/kg | |
| | | PCB169 | 0.040J µg/kg | 0.040J µg/kg | |
| | | PCB170 | 0.25 µg/kg | 0.25J µg/kg | |
| | | PCB177 | 0.11J µg/kg | 0.11J µg/kg | |
| | | PCB180 | 0.53 µg/kg | 0.53J µg/kg | |
| | | PCB183 | 0.19J µg/kg | 0.19J µg/kg | |
| | | PCB187 | 0.52 µg/kg | 0.52J µg/kg | |
| | | PCB189 | 0.036J µg/kg | 0.036J µg/kg | |
| | | PCB194 | 0.12J µg/kg | 0.12J µg/kg | |
| | | PCB195 | 0.032U µg/kg | 0.032UJ µg/kg | |
| | | PCB201 | 0.044J µg/kg | 0.044J µg/kg | |
| PCB206 | 0.077J µg/kg | 0.077J µg/kg | | | |
| CP-FF-CH-C1-20141008 | Pesticides | 4,4'-DDD | 0.19J µg/kg | 0.19J µg/kg | MS/MSD %R below control limit, and/or MS/MSD RPD value above control limit |
| | | 4,4'-DDE | 12 µg/kg | 12J µg/kg | |
| | | Alpha-chlordane | 0.067U µg/kg | 0.067UJ µg/kg | |
| | | Dieldrin | 0.090U µg/kg | 0.090UJ µg/kg | |
| | | Gamma-chlordane | 0.046U µg/kg | 0.046UJ µg/kg | |
| CS-FF-WC-C1-20141015 | PCBs | PCB049 | 4.2 µg/kg | 4.2J µg/kg | LCSD %R below control limit and/or LCS/LCSD RPD value above control limit |
| | | PCB052 | 6.2 µg/kg | 6.2J µg/kg | |
| | | PCB066 | 4.7 µg/kg | 4.7J µg/kg | |
| | | PCB070 | 2.9 µg/kg | 2.9J µg/kg | |
| | | PCB074 | 2.7 µg/kg | 2.7J µg/kg | |
| | | PCB077 | 2.0 µg/kg | 2.0J µg/kg | |
| | | PCB087 | 4.0 µg/kg | 4.0J µg/kg | |
| | | PCB099 | 9.4 µg/kg | 9.4J µg/kg | |
| | | PCB101 | 15 µg/kg | 15J µg/kg | |
| | | PCB105 | 4.5 µg/kg | 4.5J µg/kg | |
| | | PCB110 | 9.8 µg/kg | 9.8J µg/kg | |
| | | PCB118 | 13 µg/kg | 13J µg/kg | |
| | | PCB119 | 0.71 µg/kg | 0.71J µg/kg | |
| | | PCB123 | 1.1 µg/kg | 1.1J µg/kg | |
| | | PCB128 | 2.5 µg/kg | 2.5J µg/kg | |
| | | PCB132/153 | 34 µg/kg | 34J µg/kg | |
| | | PCB138/158 | 20 µg/kg | 20J µg/kg | |
| PCB149 | 13 µg/kg | 13J µg/kg | | | |

| Sample ID | Parameter | Analyte | Reported Result | Qualified Result | Reason |
|----------------------|--------------|-----------------|---|------------------|--|
| | | PCB151 | 4.6 µg/kg | 4.6J µg/kg | |
| | | PCB156 | 1.3 µg/kg | 1.3J µg/kg | |
| | | PCB157 | 0.25 µg/kg | 0.25J µg/kg | |
| | | PCB167 | 0.92 µg/kg | 0.92J µg/kg | |
| | | PCB168 | 0.045U µg/kg | 0.045UJ µg/kg | |
| | | PCB169 | 0.62 µg/kg | 0.62J µg/kg | |
| | | PCB170 | 4.2 µg/kg | 4.2J µg/kg | |
| | | PCB177 | 2.0 µg/kg | 2.0J µg/kg | |
| | | PCB180 | 10 µg/kg | 10J µg/kg | |
| | | PCB183 | 3.2 µg/kg | 3.2J µg/kg | |
| | | PCB187 | 8.8 µg/kg | 8.8J µg/kg | |
| | | PCB189 | 0.15J µg/kg | 0.15J µg/kg | |
| | | PCB194 | 1.5 µg/kg | 1.5J µg/kg | |
| | | PCB195 | 0.65 µg/kg | 0.65J µg/kg | |
| | | PCB201 | 0.31 µg/kg | 0.31J µg/kg | |
| | Pesticides | 2,4'-DDT | 0.032U µg/kg | 0.032UJ µg/kg | LCS and/or LCSD %R, MS/MSD %R below control limit, and/or MS/MSD RPD value above control limit |
| | | Oxychlordane | 0.076U µg/kg | 0.076UJ µg/kg | |
| | | 2,4'-DDD | 1.3 µg/kg | 1.3J µg/kg | LCS and/or LCSD %R, MS/MSD %R below control limit, surrogate %R above control limit, and/or MS/MSD RPD value above control limit |
| | | 2,4'-DDE | 8.4 µg/kg | 8.4J µg/kg | |
| | | 4,4'-DDD | 18 µg/kg | 18J µg/kg | |
| | | 4,4'-DDE | 230 µg/kg | 230J µg/kg | |
| | | 4,4'-DDT | 1.5 µg/kg | 1.5J µg/kg | |
| | | Alpha Chlordane | 6.7 µg/kg | 6.7J µg/kg | |
| | | Cis-nonachlor | 3.8 µg/kg | 3.8J µg/kg | |
| | | Gamma Chlordane | 3.2 µg/kg | 3.2J µg/kg | |
| Trans-nonachlor | 6.9 µg/kg | 6.9J µg/kg | | | |
| Dieldrin | 0.090U µg/kg | 0.090UJ µg/kg | MS/MSD %R below control limit and/or MS/MSD RPD value above control limit | | |
| CS-FF-WC-C2-20141015 | PCBs | PCB052 | 6.1 µg/kg | 6.1J µg/kg | LCSD %R below control limit and/or LCS/LCSD RPD value above control limit |
| | | PCB074 | 1.2 µg/kg | 1.2J µg/kg | |
| | | PCB077 | 1.7 µg/kg | 1.7J µg/kg | |
| | | PCB018 | 0.43 µg/kg | 0.43J µg/kg | MS %R below control limit and/or MS/MSD RPD value above |
| | | PCB114 | 0.036U µg/kg | 0.036UJ µg/kg | |
| | | PCB126 | 0.034U µg/kg | 0.034UJ µg/kg | |

| Sample ID | Parameter | Analyte | Reported Result | Qualified Result | Reason |
|-----------|------------|-----------------|-----------------|------------------|--|
| | | | | | control limit |
| | | PCB044 | 1.4 µg/kg | 1.4J µg/kg | MS and LCSD %R below control limit and/or MS/MSD and/or LCS/LCSD RPD value above control limit |
| | | PCB049 | 4.0 µg/kg | 4.0J µg/kg | |
| | | PCB066 | 2.2 µg/kg | 2.2J µg/kg | |
| | | PCB070 | 1.2 µg/kg | 1.2J µg/kg | |
| | | PCB087 | 1.9 µg/kg | 1.9J µg/kg | |
| | | PCB099 | 6.3 µg/kg | 6.3J µg/kg | |
| | | PCB101 | 9.4 µg/kg | 9.4J µg/kg | |
| | | PCB105 | 2.3 µg/kg | 2.3J µg/kg | |
| | | PCB110 | 5.1 µg/kg | 5.1J µg/kg | |
| | | PCB118 | 6.3 µg/kg | 6.3J µg/kg | |
| | | PCB119 | 0.72 µg/kg | 0.72J µg/kg | |
| | | PCB123 | 0.49 µg/kg | 0.49J µg/kg | |
| | | PCB128 | 1.4 µg/kg | 1.4J µg/kg | |
| | | PCB132/153 | 26 µg/kg | 26J µg/kg | |
| | | PCB138/158 | 13 µg/kg | 13J µg/kg | |
| | | PCB149 | 11 µg/kg | 11J µg/kg | |
| | | PCB151 | 4.0 µg/kg | 4.0J µg/kg | |
| | | PCB156 | 0.77 µg/kg | 0.77J µg/kg | |
| | | PCB157 | 0.15J µg/kg | 0.15J µg/kg | |
| | | PCB167 | 0.61 µg/kg | 0.61J µg/kg | |
| | | PCB168 | 0.045U µg/kg | 0.045UJ µg/kg | |
| | | PCB169 | 0.46 µg/kg | 0.46J µg/kg | |
| | | PCB170 | 3.1 µg/kg | 3.1J µg/kg | |
| | | PCB177 | 1.4 µg/kg | 1.4J µg/kg | |
| | | PCB180 | 8.4 µg/kg | 8.4J µg/kg | |
| | | PCB183 | 2.6 µg/kg | 2.6J µg/kg | |
| | | PCB187 | 8.2 µg/kg | 8.2J µg/kg | |
| | | PCB189 | 0.12J µg/kg | 0.12J µg/kg | |
| | | PCB194 | 1.3 µg/kg | 1.3J µg/kg | |
| | | PCB195 | 0.52 µg/kg | 0.52J µg/kg | |
| | | PCB201 | 0.28 µg/kg | 0.28J µg/kg | |
| | Pesticides | 2,4'-DDD | 0.26 µg/kg | 0.26J µg/kg | LCS and/or LCSD %R below control limit |
| | | 2,4'-DDE | 2.1 µg/kg | 2.1J µg/kg | |
| | | 2,4'-DDT | 0.032U µg/kg | 0.032UJ µg/kg | |
| | | 4,4'-DDD | 4.1 µg/kg | 4.1J µg/kg | |
| | | 4,4'-DDE | 54 µg/kg | 54J µg/kg | |
| | | 4,4'-DDT | 0.37 µg/kg | 0.37J µg/kg | |
| | | Alpha Chlordane | 1.5 µg/kg | 1.5J µg/kg | |
| | | Cis-nonachlor | 0.75 µg/kg | 0.75J µg/kg | |
| | | Gamma Chlordane | 0.64 µg/kg | 0.64J µg/kg | |
| | | Oxychlordane | 0.076U µg/kg | 0.076UJ µg/kg | |
| | | Trans-nonachlor | 1.3 µg/kg | 1.3J µg/kg | |

| Sample ID | Parameter | Analyte | Reported Result | Qualified Result | Reason |
|-----------|------------|-----------------|-----------------|------------------|--|
| | | PCB049 | 2.1 µg/kg | 2.1J µg/kg | |
| | | PCB052 | 3.0 µg/kg | 3.0J µg/kg | |
| | | PCB066 | 2.3 µg/kg | 2.3J µg/kg | |
| | | PCB070 | 2.4 µg/kg | 2.4J µg/kg | |
| | | PCB074 | 1.5 µg/kg | 1.5J µg/kg | |
| | | PCB077 | 0.40 µg/kg | 0.40J µg/kg | |
| | | PCB087 | 1.8 µg/kg | 1.8J µg/kg | |
| | | PCB099 | 2.8 µg/kg | 2.8J µg/kg | |
| | | PCB101 | 4.0 µg/kg | 4.0J µg/kg | |
| | | PCB105 | 1.4 µg/kg | 1.4J µg/kg | |
| | | PCB110 | 3.0 µg/kg | 3.0J µg/kg | |
| | | PCB114 | 0.12J µg/kg | 0.12J µg/kg | |
| | | PCB118 | 3.8 µg/kg | 3.8J µg/kg | |
| | | PCB119 | 0.15J µg/kg | 0.15J µg/kg | |
| | | PCB123 | 0.49 µg/kg | 0.49J µg/kg | |
| | | PCB128 | 0.84 µg/kg | 0.84J µg/kg | |
| | | PCB132/153 | 6.7 µg/kg | 6.7J µg/kg | |
| | | PCB138/158 | 4.8 µg/kg | 4.8J µg/kg | |
| | | PCB149 | 2.6 µg/kg | 2.6J µg/kg | |
| | | PCB151 | 0.80 µg/kg | 0.80J µg/kg | |
| | | PCB156 | 0.33 µg/kg | 0.33J µg/kg | |
| | | PCB157 | 0.11J µg/kg | 0.11J µg/kg | |
| | | PCB167 | 0.25 µg/kg | 0.25J µg/kg | |
| | | PCB168 | 0.045U µg/kg | 0.045UJ µg/kg | |
| | | PCB169 | 0.15J µg/kg | 0.15J µg/kg | |
| | | PCB170 | 0.81 µg/kg | 0.81J µg/kg | |
| | | PCB177 | 0.50 µg/kg | 0.50J µg/kg | |
| | | PCB180 | 1.6 µg/kg | 1.6J µg/kg | |
| | | PCB183 | 0.50 µg/kg | 0.50J µg/kg | |
| | | PCB187 | 1.8 µg/kg | 1.8J µg/kg | |
| | | PCB189 | 0.054J µg/kg | 0.054J µg/kg | |
| | | PCB194 | 0.35 µg/kg | 0.35J µg/kg | |
| | | PCB195 | 0.14J µg/kg | 0.14J µg/kg | |
| | | PCB201 | 0.083J µg/kg | 0.083J µg/kg | |
| | Pesticides | 2,4'-DDD | 0.29 µg/kg | 0.29J µg/kg | LCS and/or LCSD %R below control limit |
| | | 2,4'-DDE | 4.7 µg/kg | 4.7J µg/kg | |
| | | 2,4'-DDT | 0.032U µg/kg | 0.032UJ µg/kg | |
| | | 4,4'-DDD | 2.2 µg/kg | 2.2J µg/kg | |
| | | 4,4'-DDE | 66 µg/kg | 66J µg/kg | |
| | | 4,4'-DDT | 0.22 µg/kg | 0.22J µg/kg | |
| | | Alpha Chlordane | 2.0 µg/kg | 2.0J µg/kg | |
| | | Cis-nonachlor | 0.94 µg/kg | 0.94J µg/kg | |
| | | Gamma Chlordane | 0.78 µg/kg | 0.78J µg/kg | |

| Sample ID | Parameter | Analyte | Reported Result | Qualified Result | Reason |
|-----------------------|-----------|-------------------|-----------------|------------------|---|
| | | Oxychlorane | 0.076U µg/kg | 0.076UJ µg/kg | |
| | | Trans-nonachlor | 1.5 µg/kg | 1.5J µg/kg | |
| CS-RW-01-G-S-20140930 | Metals | Dissolved lead | 0.146 µg/L | 0.146J µg/L | Lab duplicate result outside of control limit |
| | | Dissolved mercury | 0.000485BJ µg/L | 0.000485U µg/L | Method blank contamination |
| | | Total copper | 3.68B µg/L | 3.68J µg/L | MS/MSD %R above control limit |
| | | Total zinc | 26.5B µg/L | 26.5J µg/L | |
| EB20141102 | Metals | Dissolved cadmium | 0.00793B,J µg/L | 0.00793U µg/L | Method blank contamination |
| | | Dissolved mercury | 0.000244BJ µg/L | 0.000244U µg/L | |
| | | Dissolved zinc | 0.604B µg/L | 0.604U µg/L | |
| | | Total cadmium | 0.0078B,J µg/L | 0.0078U µg/L | |
| | | Total mercury | 0.000596B µg/L | 0.000596U µg/L | |
| | | Total zinc | 0.688B µg/L | 0.688U µg/L | |
| | | Total lead | 0.0779 µg/L | 0.0779J µg/L | MS %R below control limit |
| FB-20141102 | Metals | Dissolved copper | 0.0367B µg/L | 0.0367U µg/L | Method blank contamination |
| | | Dissolved zinc | 0.250BJ µg/L | 0.250U µg/L | |
| | | Total copper | 0.0372B µg/L | 0.0372U µg/L | |
| | | Total zinc | 0.207BJ µg/L | 0.207U µg/L | |
| FH-RW-07-G-S-20140930 | Metals | Dissolved lead | 0.140 µg/L | 0.140J µg/L | Lab duplicate result outside of control limit |
| | | Total copper | 4.31B µg/L | 4.31J µg/L | MS/MSD %R above control limit |
| | | Total zinc | 11.9B µg/L | 11.9J µg/L | |
| IA-RW-02-G-S-20140930 | Metals | Dissolved lead | 0.150 µg/L | 0.150J µg/L | Lab duplicate result outside of control limit |
| IA-RW-02-G-S-20141102 | Metals | Total copper | 3.26B µg/L | 3.26J µg/L | MS/MSD %R above control limit |
| | | Total zinc | 19.1B µg/L | 19.1J µg/L | |
| IA-RW-03-G-S-20140930 | Metals | Dissolved lead | 0.101 µg/L | 0.101J µg/L | Lab duplicate result outside of control limit |
| | | Total copper | 2.39B µg/L | 2.39J µg/L | MS/MSD %R above control limit |
| | | Total zinc | 7.48B µg/L | 7.48J µg/L | |
| IA-RW-04-G-S-20140930 | Metals | Dissolved lead | 0.948 µg/L | 0.948J µg/L | Lab duplicate result outside of control limit |
| | | Total copper | 3.04B µg/L | 3.04J µg/L | MS/MSD %R above control limit |
| | | Total zinc | 18.6B µg/L | 18.6J µg/L | |
| IA-RW-05-G- | Metals | Dissolved lead | 0.0313 µg/L | 0.0313J µg/L | Lab duplicate |

| Sample ID | Parameter | Analyte | Reported Result | Qualified Result | Reason |
|-------------------------|---------------|-------------------|-----------------|------------------|---|
| S-20140930 | | | | | result outside of control limit |
| | | Total copper | 1.00B µg/L | 1.00J µg/L | MS/MSD %R above control limit |
| | | Total zinc | 4.67B µg/L | 4.67J µg/L | |
| IA-RW-06-G-S-20140930 | Metals | Dissolved lead | 0.0172J µg/L | 0.0172J µg/L | Lab duplicate result outside of control limit |
| | | Total copper | 2.65B µg/L | 2.65J µg/L | MS/MSD %R above control limit |
| | | Total zinc | 13.6B µg/L | 13.6J µg/L | |
| IB-RW-12-G-S-20141102 | Metals | Total copper | 2.04B µg/L | 2.04J µg/L | MS/MSD %R above control limit |
| | | Total zinc | 12.1B µg/L | 12.1J µg/L | |
| IB-RW-13-G-S-20141102 | Metals | Total copper | 1.06B µg/L | 1.06J µg/L | MS/MSD %R above control limit |
| | | Total zinc | 5.45B µg/L | 5.45J µg/L | |
| IB-RW-14-G-S-20141102 | Metals | Total copper | 1.26B µg/L | 1.26J µg/L | MS/MSD %R above control limit |
| | | Total zinc | 2.94B µg/L | 2.94J µg/L | |
| IB-RW-15-G-S-20141102 | Metals | Total copper | 1.22B µg/L | 1.22J µg/L | MS/MSD %R above control limit |
| | | Total zinc | 3.92B µg/L | 3.92J µg/L | |
| LE-RW-1021-G-S-20141102 | Metals | Dissolved mercury | 0.000752B µg/L | 0.000752U µg/L | Method blank contamination |
| | | Total lead | 1.37 µg/L | 1.37J µg/L | MS %R below control limit |
| | | Total chromium | 0.436J µg/L | 0.436J µg/L | MSD %R above control limit |
| LE-RW-21-G-S-20140926 | Metals | Dissolved lead | 0.0862B µg/L | 0.0862U µg/L | Method blank contamination |
| | | Total cadmium | 0.0520B µg/L | 0.0520U µg/L | |
| | | Dissolved copper | 0.929 µg/L | 0.929J µg/L | MS/MSD %R above control limit |
| | | Total copper | 1.44 µg/L | 1.44J µg/L | |
| LE-RW-21-G-S-20141102 | Conventionals | TSS | 7.2 mg/L | 7.2J mg/L | Lab duplicate result outside of control limit |
| | | Total lead | 1.99 µg/L | 1.99J µg/L | MS %R below control limit |
| | | Total chromium | 0.626 µg/L | 0.626J µg/L | MSD %R above control limit |
| LE-RW-22-G-B-20141102 | Conventionals | TSS | 5.4 mg/L | 5.4J mg/L | Lab duplicate result outside of control limit |
| LE-RW-22-G-M-20141102 | Conventionals | TSS | 8.4 mg/L | 8.4J mg/L | Lab duplicate result outside of control limit |
| LE-RW-22-G-S-20140926 | Metals | Dissolved cadmium | 0.0348B µg/L | 0.0348U µg/L | Method blank contamination |

| Sample ID | Parameter | Analyte | Reported Result | Qualified Result | Reason |
|-------------------------|---------------|-------------------|-----------------|------------------|---|
| | | Dissolved lead | 0.0625B µg/L | 0.0625U µg/L | Method blank contamination |
| | | Dissolved copper | 1.02 µg/L | 1.02J µg/L | MS/MSD %R above control limit |
| | | Total copper | 1.95 µg/L | 1.95J µg/L | MS/MSD %R above control limit |
| LE-RW-22-G-S-20141102 | Conventionals | TSS | 6.9 mg/L | 6.9J mg/L | Lab duplicate result outside of control limit |
| | Metals | Total lead | 1.91 µg/L | 1.91J µg/L | MS %R below control limit |
| | | Total chromium | 0.430J µg/L | 0.430J µg/L | MSD %R above control limit |
| OA-RW-08-G-S-20140930 | Metals | Dissolved mercury | 0.000329BJ µg/L | 0.000329U µg/L | Method blank contamination |
| OA-RW-08-G-S-20141102 | Metals | Total zinc | 0.788B µg/L | 0.788U µg/L | Method blank contamination |
| | | Total copper | 0.247B µg/L | 0.247J µg/L | MS/MSD %R above control limit |
| OA-RW-09-G-S-20140930 | Metals | Dissolved mercury | 0.000469BJ µg/L | 0.000469U µg/L | Method blank contamination |
| OA-RW-09-G-S-20141102 | Metals | Total copper | 2.03B µg/L | 2.03J µg/L | MS/MSD %R above control limit |
| | | Total zinc | 5.45B µg/L | 5.45J µg/L | |
| OA-RW-1008-G-S-20140930 | Metals | Dissolved lead | 0.0827 µg/L | 0.0827J µg/L | Lab duplicate result outside of control limit |
| | | Dissolved mercury | 0.000291BJ µg/L | 0.000291U µg/L | Method blank contamination |
| OB-FF-CH-C1-20141008 | PCBs | PCB018 | 0.087J µg/kg | 0.087J µg/kg | LCSD %R below control limit and/or LCS/LCSD RPD value above control limit |
| | | PCB028 | 0.14J µg/kg | 0.14J µg/kg | |
| | | PCB037 | 0.035U µg/kg | 0.035UJ µg/kg | |
| | | PCB044 | 0.10J µg/kg | 0.10J µg/kg | |
| | | PCB049 | 0.39 µg/kg | 0.39J µg/kg | |
| | | PCB052 | 0.36 µg/kg | 0.36J µg/kg | |
| | | PCB066 | 0.46 µg/kg | 0.46J µg/kg | |
| | | PCB070 | 0.10J µg/kg | 0.10J µg/kg | |
| | | PCB074 | 0.20J µg/kg | 0.20J µg/kg | |
| | | PCB077 | 0.085U µg/kg | 0.085UJ µg/kg | |
| | | PCB081 | 0.064U µg/kg | 0.064UJ µg/kg | |
| | | PCB087 | 0.42 µg/kg | 0.42J µg/kg | |
| PCB099 | 1.0 µg/kg | 1.0J µg/kg | | | |

| Sample ID | Parameter | Analyte | Reported Result | Qualified Result | Reason | | |
|--------------------------|--------------|-------------|-----------------|------------------|---|-------------|--|
| | | PCB101 | 1.2 µg/kg | 1.2J µg/kg | | | |
| | | PCB105 | 0.41 µg/kg | 0.41J µg/kg | | | |
| | | PCB110 | 0.92 µg/kg | 0.92J µg/kg | | | |
| | | PCB114 | 0.036U µg/kg | 0.036UJ µg/kg | | | |
| | | PCB118 | 1.3 µg/kg | 1.3J µg/kg | | | |
| | | PCB119 | 0.079J µg/kg | 0.079J µg/kg | | | |
| | | PCB123 | 0.15J µg/kg | 0.15J µg/kg | | | |
| | | PCB126 | 0.034U µg/kg | 0.034UJ µg/kg | | | |
| | | PCB128 | 0.28 µg/kg | 0.28J µg/kg | | | |
| | | PCB132/153 | 3.0 µg/kg | 3.0J µg/kg | | | |
| | | PCB138/158 | 2.0 µg/kg | 2.0J µg/kg | | | |
| | | PCB149 | 0.98 µg/kg | 0.98J µg/kg | | | |
| | | PCB151 | 0.39 µg/kg | 0.39J µg/kg | | | |
| | | PCB156 | 0.13J µg/kg | 0.13J µg/kg | | | |
| | | PCB157 | 0.051U µg/kg | 0.051UJ µg/kg | | | |
| | | PCB167 | 0.13J µg/kg | 0.13J µg/kg | | | |
| | | PCB168 | 0.045U µg/kg | 0.045UJ µg/kg | | | |
| | | PCB169 | 0.045J µg/kg | 0.045J µg/kg | | | |
| | | PCB170 | 0.34 µg/kg | 0.34J µg/kg | | | |
| | | PCB177 | 0.20J µg/kg | 0.20J µg/kg | | | |
| | | PCB180 | 0.78 µg/kg | 0.78J µg/kg | | | |
| | | PCB183 | 0.29 µg/kg | 0.29J µg/kg | | | |
| | | PCB187 | 0.79 µg/kg | 0.79J µg/kg | | | |
| | | PCB189 | 0.042J µg/kg | 0.042J µg/kg | | | |
| | | PCB194 | 0.14J µg/kg | 0.14J µg/kg | | | |
| | | PCB195 | 0.032U µg/kg | 0.032UJ µg/kg | | | |
| | | PCB201 | 0.053J µg/kg | 0.053J µg/kg | | | |
| | | PCB206 | 0.12J µg/kg | 0.12J µg/kg | | | |
| | | Pesticides | 2,4'-DDD | 0.10J µg/kg | | 0.10J µg/kg | LCS or LCSD %R below control limit |
| | | | 2,4'-DDE | 0.92 µg/kg | | 0.92J µg/kg | |
| | | | 4,4'-DDD | 0.20J µg/kg | | 0.20J µg/kg | |
| | | | 4,4'-DDE | 15 µg/kg | | 15J µg/kg | |
| Alpha Chlordane | 0.082J µg/kg | | 0.082J µg/kg | | | | |
| Cis-nonachlor | 0.14J µg/kg | | 0.14J µg/kg | | | | |
| Gamma Chlordane | 0.046U µg/kg | | 0.046UJ µg/kg | | | | |
| Oxychlordane | 0.076U µg/kg | | 0.076UJ µg/kg | | | | |
| Trans-nonachlor | 0.20 µg/kg | 0.20J µg/kg | | | | | |
| OB-FF-CH- C2-20141008 | PCBs | PCB018 | 0.13J µg/kg | 0.13J µg/kg | LCSD %R below control limit and/or LCS/LCSD RPD value above control limit | | |
| | | PCB028 | 0.19J µg/kg | 0.19J µg/kg | | | |
| | | PCB037 | 0.035U µg/kg | 0.035UJ µg/kg | | | |
| | | PCB044 | 0.092U µg/kg | 0.092UJ µg/kg | | | |
| | | PCB049 | 0.32 µg/kg | 0.32J µg/kg | | | |
| | | PCB052 | 0.34 µg/kg | 0.34J µg/kg | | | |

| Sample ID | Parameter | Analyte | Reported Result | Qualified Result | Reason |
|-----------|------------|-----------------|-----------------|------------------|--|
| | | PCB066 | 0.34 µg/kg | 0.34J µg/kg | |
| | | PCB070 | 0.13J µg/kg | 0.13J µg/kg | |
| | | PCB074 | 0.15J µg/kg | 0.15J µg/kg | |
| | | PCB077 | 0.085U µg/kg | 0.085UJ µg/kg | |
| | | PCB081 | 0.064U µg/kg | 0.064UJ µg/kg | |
| | | PCB087 | 0.38 µg/kg | 0.38J µg/kg | |
| | | PCB099 | 0.58 µg/kg | 0.58J µg/kg | |
| | | PCB101 | 0.98 µg/kg | 0.98J µg/kg | |
| | | PCB105 | 0.31 µg/kg | 0.31J µg/kg | |
| | | PCB110 | 0.63 µg/kg | 0.63J µg/kg | |
| | | PCB114 | 0.036U µg/kg | 0.036UJ µg/kg | |
| | | PCB118 | 0.87 µg/kg | 0.87J µg/kg | |
| | | PCB119 | 0.058J µg/kg | 0.058J µg/kg | |
| | | PCB123 | 0.11J µg/kg | 0.11J µg/kg | |
| | | PCB126 | 0.034U µg/kg | 0.034UJ µg/kg | |
| | | PCB128 | 0.23 µg/kg | 0.23J µg/kg | |
| | | PCB132/153 | 1.8 µg/kg | 1.8J µg/kg | |
| | | PCB138/158 | 1.3 µg/kg | 1.3J µg/kg | |
| | | PCB149 | 0.62 µg/kg | 0.62J µg/kg | |
| | | PCB151 | 0.23 µg/kg | 0.23J µg/kg | |
| | | PCB156 | 0.096J µg/kg | 0.096J µg/kg | |
| | | PCB157 | 0.051U µg/kg | 0.051UJ µg/kg | |
| | | PCB167 | 0.042U µg/kg | 0.042UJ µg/kg | |
| | | PCB168 | 0.045U µg/kg | 0.045UJ µg/kg | |
| | | PCB169 | 0.061J µg/kg | 0.061J µg/kg | |
| | | PCB170 | 0.24 µg/kg | 0.24J µg/kg | |
| | | PCB177 | 0.12J µg/kg | 0.12J µg/kg | |
| | | PCB180 | 0.45 µg/kg | 0.45J µg/kg | |
| | | PCB183 | 0.18J µg/kg | 0.18J µg/kg | |
| | | PCB187 | 0.46 µg/kg | 0.46J µg/kg | |
| | | PCB189 | 0.031J µg/kg | 0.031J µg/kg | |
| | | PCB194 | 0.095J µg/kg | 0.095J µg/kg | |
| | | PCB195 | 0.032U µg/kg | 0.032UJ µg/kg | |
| | | PCB201 | 0.044U µg/kg | 0.044UJ µg/kg | |
| | | PCB206 | 0.069J µg/kg | 0.069J µg/kg | |
| | Pesticides | 2,4'-DDD | 0.086J µg/kg | 0.086J µg/kg | LCS or LCSD %R below control limit |
| | | 2,4'-DDE | 0.47 µg/kg | 0.47J µg/kg | |
| | | 4,4'-DDD | 0.10J µg/kg | 0.10J µg/kg | |
| | | 4,4'-DDE | 7.2 µg/kg | 7.2J µg/kg | |
| | | Alpha Chlordane | 0.11J µg/kg | 0.11J µg/kg | |
| | | Cis-nonachlor | 0.063J µg/kg | 0.063J µg/kg | |
| | | Gamma Chlordane | 0.046U µg/kg | 0.046UJ µg/kg | |
| | | Oxychlordane | 0.076U µg/kg | 0.076UJ µg/kg | |

| Sample ID | Parameter | Analyte | Reported Result | Qualified Result | Reason |
|--------------------------|--------------|-----------------|-----------------|------------------|---|
| | | Trans-nonachlor | 0.095J µg/kg | 0.095J µg/kg | |
| OB-FF-CH- C3-20141008 | PCBs | PCB018 | 0.064J µg/kg | 0.064J µg/kg | LCSD %R below control limit and/or LCS/LCSD RPD value above control limit |
| | | PCB028 | 0.090J µg/kg | 0.090J µg/kg | |
| | | PCB037 | 0.035U µg/kg | 0.035UJ µg/kg | |
| | | PCB044 | 0.092U µg/kg | 0.092UJ µg/kg | |
| | | PCB049 | 0.12J µg/kg | 0.12J µg/kg | |
| | | PCB052 | 0.18J µg/kg | 0.18J µg/kg | |
| | | PCB066 | 0.17J µg/kg | 0.17J µg/kg | |
| | | PCB070 | 0.086J µg/kg | 0.086J µg/kg | |
| | | PCB074 | 0.10J µg/kg | 0.10J µg/kg | |
| | | PCB077 | 0.085U µg/kg | 0.085UJ µg/kg | |
| | | PCB081 | 0.064U µg/kg | 0.064UJ µg/kg | |
| | | PCB087 | 0.23 µg/kg | 0.23J µg/kg | |
| | | PCB099 | 0.64 µg/kg | 0.64J µg/kg | |
| | | PCB101 | 0.73 µg/kg | 0.73J µg/kg | |
| | | PCB105 | 0.27 µg/kg | 0.27J µg/kg | |
| | | PCB110 | 0.36 µg/kg | 0.36J µg/kg | |
| | | PCB114 | 0.036U µg/kg | 0.036UJ µg/kg | |
| | | PCB118 | 0.79 µg/kg | 0.79J µg/kg | |
| | | PCB119 | 0.057J µg/kg | 0.057J µg/kg | |
| | | PCB123 | 0.086J µg/kg | 0.086J µg/kg | |
| | | PCB126 | 0.034U µg/kg | 0.034UJ µg/kg | |
| | | PCB128 | 0.27 µg/kg | 0.27J µg/kg | |
| | | PCB132/153 | 2.8 µg/kg | 2.8J µg/kg | |
| | | PCB138/158 | 1.6 µg/kg | 1.6J µg/kg | |
| | | PCB149 | 0.42 µg/kg | 0.42J µg/kg | |
| | | PCB151 | 0.19J µg/kg | 0.19J µg/kg | |
| | | PCB156 | 0.11J µg/kg | 0.11J µg/kg | |
| | | PCB157 | 0.061J µg/kg | 0.061J µg/kg | |
| | | PCB167 | 0.042U µg/kg | 0.042UJ µg/kg | |
| | | PCB168 | 0.045U µg/kg | 0.045UJ µg/kg | |
| | | PCB169 | 0.069J µg/kg | 0.069J µg/kg | |
| | | PCB170 | 0.24 µg/kg | 0.24J µg/kg | |
| PCB177 | 0.13J µg/kg | 0.13J µg/kg | | | |
| PCB180 | 0.56 µg/kg | 0.56J µg/kg | | | |
| PCB183 | 0.23 µg/kg | 0.23J µg/kg | | | |
| PCB187 | 0.71 µg/kg | 0.71J µg/kg | | | |
| PCB189 | 0.038J µg/kg | 0.038J µg/kg | | | |
| PCB194 | 0.11J µg/kg | 0.11J µg/kg | | | |
| PCB195 | 0.032U µg/kg | 0.032UJ µg/kg | | | |
| PCB201 | 0.060J µg/kg | 0.060J µg/kg | | | |
| PCB206 | 0.059J µg/kg | 0.059J µg/kg | | | |
| | Pesticides | 2,4'-DDD | 0.20J µg/kg | 0.20J µg/kg | LCS or LCSD %R |

| Sample ID | Parameter | Analyte | Reported Result | Qualified Result | Reason |
|----------------------|--------------|-----------------|-----------------|------------------|---|
| | | 2,4'-DDE | 0.38 µg/kg | 0.38J µg/kg | below control limit |
| | | 4,4'-DDD | 0.11J µg/kg | 0.11J µg/kg | |
| | | 4,4'-DDE | 6.0 µg/kg | 6.0J µg/kg | |
| | | Alpha Chlordane | 0.067U µg/kg | 0.067UJ µg/kg | |
| | | Cis-nonachlor | 0.024U µg/kg | 0.024UJ µg/kg | |
| | | Gamma Chlordane | 0.046U µg/kg | 0.046UJ µg/kg | |
| | | Oxychlordane | 0.076U µg/kg | 0.076UJ µg/kg | |
| | | Trans-nonachlor | 0.049J µg/kg | 0.049J µg/kg | |
| OB-FF-WC-C1-20141008 | PCBs | PCB018 | 0.26 µg/kg | 0.26J µg/kg | LCSD %R below control limit and/or LCS/LCSD RPD value above control limit |
| | | PCB028 | 0.92 µg/kg | 0.92J µg/kg | |
| | | PCB037 | 0.035U µg/kg | 0.035UJ µg/kg | |
| | | PCB044 | 0.94 µg/kg | 0.94J µg/kg | |
| | | PCB049 | 1.9 µg/kg | 1.9J µg/kg | |
| | | PCB052 | 2.0 µg/kg | 2.0J µg/kg | |
| | | PCB066 | 2.8 µg/kg | 2.8J µg/kg | |
| | | PCB070 | 1.6 µg/kg | 1.6J µg/kg | |
| | | PCB074 | 1.4 µg/kg | 1.4J µg/kg | |
| | | PCB077 | 0.78 µg/kg | 0.78J µg/kg | |
| | | PCB081 | 0.064U µg/kg | 0.064UJ µg/kg | |
| | | PCB087 | 4.0 µg/kg | 4.0J µg/kg | |
| | | PCB099 | 5.7 µg/kg | 5.7J µg/kg | |
| | | PCB101 | 6.8 µg/kg | 6.8J µg/kg | |
| | | PCB105 | 2.4 µg/kg | 2.4J µg/kg | |
| | | PCB110 | 4.5 µg/kg | 4.5J µg/kg | |
| | | PCB114 | 0.036U µg/kg | 0.036UJ µg/kg | |
| | | PCB118 | 7.8 µg/kg | 7.8J µg/kg | |
| | | PCB119 | 0.27 µg/kg | 0.27J µg/kg | |
| | | PCB123 | 0.90 µg/kg | 0.90J µg/kg | |
| | | PCB126 | 0.034U µg/kg | 0.034UJ µg/kg | |
| | | PCB128 | 2.0 µg/kg | 2.0J µg/kg | |
| | | PCB132/153 | 18 µg/kg | 18J µg/kg | |
| | | PCB138/158 | 12 µg/kg | 12J µg/kg | |
| | | PCB149 | 5.9 µg/kg | 5.9J µg/kg | |
| | | PCB151 | 1.7 µg/kg | 1.7J µg/kg | |
| | | PCB156 | 0.83 µg/kg | 0.83J µg/kg | |
| | | PCB157 | 0.22 µg/kg | 0.22J µg/kg | |
| PCB167 | 0.042U µg/kg | 0.042UJ µg/kg | | | |
| PCB168 | 0.045U µg/kg | 0.045UJ µg/kg | | | |
| PCB169 | 0.42 µg/kg | 0.42J µg/kg | | | |
| PCB170 | 2.4 µg/kg | 2.4J µg/kg | | | |
| PCB177 | 1.3 µg/kg | 1.3J µg/kg | | | |
| PCB180 | 4.8 µg/kg | 4.8J µg/kg | | | |
| PCB183 | 1.7 µg/kg | 1.7J µg/kg | | | |

| Sample ID | Parameter | Analyte | Reported Result | Qualified Result | Reason |
|----------------------|------------|-----------------|-----------------|------------------|---|
| | | PCB187 | 5.0 µg/kg | 5.0J µg/kg | LCS or LCSD %R below control limit |
| | | PCB189 | 0.082J µg/kg | 0.082J µg/kg | |
| | | PCB194 | 0.99 µg/kg | 0.99J µg/kg | |
| | | PCB195 | 0.38 µg/kg | 0.38J µg/kg | |
| | | PCB201 | 0.25 µg/kg | 0.25J µg/kg | |
| | | PCB206 | 0.74 µg/kg | 0.74J µg/kg | |
| | Pesticides | 2,4'-DDD | 0.092J µg/kg | 0.092J µg/kg | |
| | | 2,4'-DDE | 11 µg/kg | 11J µg/kg | |
| | | 4,4'-DDD | 2.4 µg/kg | 2.4J µg/kg | |
| | | 4,4'-DDE | 200 µg/kg | 200J µg/kg | |
| | | Alpha Chlordane | 0.38 µg/kg | 0.38J µg/kg | |
| | | Cis-nonachlor | 0.36 µg/kg | 0.36J µg/kg | |
| | | Gamma Chlordane | 0.10J µg/kg | 0.10J µg/kg | |
| | | Oxychlordane | 0.076U µg/kg | 0.076UJ µg/kg | |
| Trans-nonachlor | 0.44 µg/kg | 0.44J µg/kg | | | |
| OB-FF-WC-C2-20141008 | PCBs | PCB018 | 0.75 µg/kg | 0.75J µg/kg | LCSD %R below control limit and/or LCS/LCSD RPD value above control limit |
| | | PCB028 | 1.8 µg/kg | 1.8J µg/kg | |
| | | PCB037 | 0.035U µg/kg | 0.035UJ µg/kg | |
| | | PCB044 | 1.8 µg/kg | 1.8J µg/kg | |
| | | PCB049 | 2.9 µg/kg | 2.9J µg/kg | |
| | | PCB052 | 3.0 µg/kg | 3.0J µg/kg | |
| | | PCB066 | 3.5 µg/kg | 3.5J µg/kg | |
| | | PCB070 | 2.4 µg/kg | 2.4J µg/kg | |
| | | PCB074 | 1.8 µg/kg | 1.8J µg/kg | |
| | | PCB077 | 0.97 µg/kg | 0.97J µg/kg | |
| | | PCB081 | 0.064U µg/kg | 0.064UJ µg/kg | |
| | | PCB087 | 3.8 µg/kg | 3.8J µg/kg | |
| | | PCB099 | 6.4 µg/kg | 6.4J µg/kg | |
| | | PCB101 | 9.1 µg/kg | 9.1J µg/kg | |
| | | PCB105 | 2.9 µg/kg | 2.9J µg/kg | |
| | | PCB110 | 6.1 µg/kg | 6.1J µg/kg | |
| | | PCB114 | 0.19J µg/kg | 0.19J µg/kg | |
| | | PCB118 | 9.2 µg/kg | 9.2J µg/kg | |
| | | PCB119 | 0.36 µg/kg | 0.36J µg/kg | |
| | | PCB123 | 1.1 µg/kg | 1.1J µg/kg | |
| | | PCB126 | 0.034U µg/kg | 0.034UJ µg/kg | |
| | | PCB128 | 2.0 µg/kg | 2.0J µg/kg | |
| | | PCB132/153 | 21 µg/kg | 21J µg/kg | |
| | | PCB138/158 | 14 µg/kg | 14J µg/kg | |
| | | PCB149 | 7.1 µg/kg | 7.1J µg/kg | |
| | | PCB151 | 2.3 µg/kg | 2.3J µg/kg | |
| PCB156 | 0.93 µg/kg | 0.93J µg/kg | | | |
| PCB157 | 0.20 µg/kg | 0.20J µg/kg | | | |

| Sample ID | Parameter | Analyte | Reported Result | Qualified Result | Reason |
|----------------------|--------------|-----------------|-----------------|------------------|---|
| | | PCB167 | 0.66 µg/kg | 0.66J µg/kg | |
| | | PCB168 | 0.045U µg/kg | 0.045UJ µg/kg | |
| | | PCB169 | 0.41 µg/kg | 0.41J µg/kg | |
| | | PCB170 | 2.7 µg/kg | 2.7J µg/kg | |
| | | PCB177 | 1.4 µg/kg | 1.4J µg/kg | |
| | | PCB180 | 5.6 µg/kg | 5.6J µg/kg | |
| | | PCB183 | 1.9 µg/kg | 1.9J µg/kg | |
| | | PCB187 | 5.4 µg/kg | 5.4J µg/kg | |
| | | PCB189 | 0.12J µg/kg | 0.12J µg/kg | |
| | | PCB194 | 1.0 µg/kg | 1.0J µg/kg | |
| | | PCB195 | 0.41 µg/kg | 0.41J µg/kg | |
| | | PCB201 | 0.23 µg/kg | 0.23J µg/kg | |
| | PCB206 | 0.63 µg/kg | 0.63J µg/kg | | |
| | Pesticides | 2,4'-DDD | 0.15J µg/kg | 0.15J µg/kg | LCS or LCSD %R below control limit |
| | | 2,4'-DDE | 10 µg/kg | 10J µg/kg | |
| | | 4,4'-DDD | 1.4 µg/kg | 1.4J µg/kg | |
| | | 4,4'-DDE | 110 µg/kg | 110J µg/kg | |
| | | Alpha Chlordane | 0.46 µg/kg | 0.46J µg/kg | |
| | | Cis-nonachlor | 0.39 µg/kg | 0.39J µg/kg | |
| Gamma Chlordane | | 0.19J µg/kg | 0.19J µg/kg | | |
| Oxychlordane | 0.076U µg/kg | 0.076UJ µg/kg | | | |
| Trans-nonachlor | 0.43 µg/kg | 0.43J µg/kg | | | |
| OB-FF-WC-C3-20141008 | PCBs | PCB077 | 1.2 µg/kg | 1.2J µg/kg | LCSD %R below control limit and/or LCS/LCSD RPD value above control limit |
| | | PCB081 | 0.064U µg/kg | 0.064UJ µg/kg | |
| | | PCB105 | 3.1 µg/kg | 3.1J µg/kg | |
| | | PCB110 | 6.7 µg/kg | 6.7J µg/kg | |
| | | PCB123 | 1.0 µg/kg | 1.0J µg/kg | |
| | | PCB126 | 0.034U µg/kg | 0.034UJ µg/kg | |
| | | PCB206 | 0.76 µg/kg | 0.76J µg/kg | |
| | PCBs | PCB018 | 0.96 µg/kg | 0.96J µg/kg | LCSD and MSD and/or MS %R below control limit and/or LCS/LCSD RPD value above control limit |
| | | PCB028 | 2.2 µg/kg | 2.2J µg/kg | |
| | | PCB037 | 0.035U µg/kg | 0.035UJ µg/kg | |
| | | PCB044 | 2.3 µg/kg | 2.3J µg/kg | |
| | | PCB049 | 2.9 µg/kg | 2.9J µg/kg | |
| | | PCB052 | 3.5 µg/kg | 3.5J µg/kg | |
| | | PCB066 | 4.0 µg/kg | 4.0J µg/kg | |
| | | PCB070 | 3.0 µg/kg | 3.0J µg/kg | |
| | | PCB074 | 2.1 µg/kg | 2.1J µg/kg | |
| | | PCB087 | 4.0 µg/kg | 4.0J µg/kg | |
| | | PCB099 | 6.5 µg/kg | 6.5J µg/kg | |
| | | PCB101 | 9.5 µg/kg | 9.5J µg/kg | |
| PCB114 | 0.19 µg/kg | 0.19J µg/kg | | | |
| PCB118 | 9.6 µg/kg | 9.6J µg/kg | | | |

| Sample ID | Parameter | Analyte | Reported Result | Qualified Result | Reason |
|-----------------------|------------|-------------------|-----------------|------------------|--|
| | | PCB119 | 0.36 µg/kg | 0.36J µg/kg | |
| | | PCB128 | 2.1 µg/kg | 2.1J µg/kg | |
| | | PCB132/153 | 22 µg/kg | 22J µg/kg | |
| | | PCB138/158 | 14 µg/kg | 14J µg/kg | |
| | | PCB149 | 7.7 µg/kg | 7.7J µg/kg | |
| | | PCB151 | 2.4 µg/kg | 2.4J µg/kg | |
| | | PCB156 | 1.0 µg/kg | 1.0J µg/kg | |
| | | PCB157 | 0.24 µg/kg | 0.24J µg/kg | |
| | | PCB167 | 0.72 µg/kg | 0.72J µg/kg | |
| | | PCB168 | 0.045U µg/kg | 0.045UJ µg/kg | |
| | | PCB169 | 0.49 µg/kg | 0.49J µg/kg | |
| | | PCB170 | 2.9 µg/kg | 2.9J µg/kg | |
| | | PCB177 | 1.6 µg/kg | 1.6J µg/kg | |
| | | PCB180 | 6.4 µg/kg | 6.4J µg/kg | |
| | | PCB183 | 2.0 µg/kg | 2.0J µg/kg | |
| | | PCB187 | 5.6 µg/kg | 5.6J µg/kg | |
| | | PCB189 | 0.15J µg/kg | 0.15J µg/kg | |
| | | PCB194 | 1.2 µg/kg | 1.2J µg/kg | |
| | | PCB195 | 0.42 µg/kg | 0.42J µg/kg | |
| | PCB201 | 0.23 µg/kg | 0.23J µg/kg | | |
| | Pesticides | 4,4'-DDE | 150 µg/kg | 150J µg/kg | LCS or LCSD %R below control limit |
| | | 2,4'-DDT | 0.032U µg/kg | 0.032UJ µg/kg | MSD and/or MS %R below control limit |
| | | 4,4'-DDT | 0.26 µg/kg | 0.26J µg/kg | |
| | | 2,4'-DDD | 1.8 µg/kg | 1.8J µg/kg | MSD and/or MS and LCS or LCSD %R below control limit |
| | | | | | |
| | | 2,4'-DDE | 13 µg/kg | 13J µg/kg | |
| | | 4,4'-DDD | 1.9 µg/kg | 1.9J µg/kg | |
| | | Alpha Chlordane | 0.58 µg/kg | 0.58J µg/kg | |
| | | Cis-nonachlor | 0.42 µg/kg | 0.42J µg/kg | |
| | | Gamma Chlordane | 0.25 µg/kg | 0.25J µg/kg | |
| | | Oxychlordane | 0.076U µg/kg | 0.076UJ µg/kg | |
| Trans-nonachlor | 0.48 µg/kg | 0.48J µg/kg | | | |
| OB-RW-16-G-S-20141102 | Metals | Total copper | 0.767B µg/L | 0.767J µg/L | MS/MSD %R above control limit |
| | | Total zinc | 1.97B µg/L | 1.97J µg/L | |
| OB-RW-17-G-S-20140926 | Metals | Dissolved cadmium | 0.0464B µg/L | 0.0464U µg/L | Method blank contamination |
| | | Total cadmium | 0.0422B µg/L | 0.0422U µg/L | |
| OB-RW-17-G-S-20140926 | Metals | Dissolved copper | 0.473 µg/L | 0.473J µg/L | MS/MSD %R above control limit |
| | | Total copper | 0.725 µg/L | 0.725J µg/L | |
| OB-RW-17- | Metals | Total copper | 0.949B µg/L | 0.949J µg/L | MS/MSD %R |

| Sample ID | Parameter | Analyte | Reported Result | Qualified Result | Reason |
|----------------------|------------|-------------|-----------------|------------------|---|
| G-S-20141102 | | Total zinc | 3.75B µg/L | 3.75J µg/L | above control limit |
| OB-WO-WS-C1-20141008 | PCBs | PCB018 | 0.46 µg/kg | 0.46J µg/kg | LCSD %R below control limit and/or LCS/LCSD RPD value above control limit |
| | | PCB028 | 2.9 µg/kg | 2.9J µg/kg | |
| | | PCB037 | 0.31 µg/kg | 0.31J µg/kg | |
| | | PCB044 | 1.2 µg/kg | 1.2J µg/kg | |
| | | PCB049 | 4.5 µg/kg | 4.5J µg/kg | |
| | | PCB052 | 5.6 µg/kg | 5.6J µg/kg | |
| | | PCB066 | 5.3 µg/kg | 5.3J µg/kg | |
| | | PCB070 | 4.8 µg/kg | 4.8J µg/kg | |
| | | PCB074 | 3.3 µg/kg | 3.3J µg/kg | |
| | | PCB077 | 1.5 µg/kg | 1.5J µg/kg | |
| | | PCB081 | 0.064U µg/kg | 0.064UJ µg/kg | |
| | | PCB087 | 5.2 µg/kg | 5.2J µg/kg | |
| | | PCB099 | 12 µg/kg | 12J µg/kg | |
| | | PCB101 | 17 µg/kg | 17J µg/kg | |
| | | PCB105 | 6.0 µg/kg | 6.0J µg/kg | |
| | | PCB110 | 6.7 µg/kg | 6.7J µg/kg | |
| | | PCB114 | 0.37 µg/kg | 0.37J µg/kg | |
| | | PCB118 | 20 µg/kg | 20J µg/kg | |
| | | PCB119 | 0.61 µg/kg | 0.61J µg/kg | |
| | | PCB123 | 2.3 µg/kg | 2.3J µg/kg | |
| | | PCB126 | 0.088J µg/kg | 0.088J µg/kg | |
| | | PCB128 | 3.6 µg/kg | 3.6J µg/kg | |
| | | PCB132/153 | 43 µg/kg | 43J µg/kg | |
| | | PCB138/158 | 28 µg/kg | 28J µg/kg | |
| | | PCB149 | 7.3 µg/kg | 7.3J µg/kg | |
| | | PCB151 | 4.3 µg/kg | 4.3J µg/kg | |
| | | PCB156 | 2.2 µg/kg | 2.2J µg/kg | |
| | | PCB157 | 0.47 µg/kg | 0.47J µg/kg | |
| | | PCB167 | 1.3 µg/kg | 1.3J µg/kg | |
| | | PCB168 | 0.045U µg/kg | 0.045UJ µg/kg | |
| PCB169 | 0.57 µg/kg | 0.57J µg/kg | | | |
| PCB170 | 5.4 µg/kg | 5.4J µg/kg | | | |
| PCB177 | 2.3 µg/kg | 2.3J µg/kg | | | |
| PCB180 | 13 µg/kg | 13J µg/kg | | | |
| PCB183 | 4.1 µg/kg | 4.1J µg/kg | | | |
| PCB187 | 10 µg/kg | 10J µg/kg | | | |
| PCB189 | 0.25 µg/kg | 0.25J µg/kg | | | |
| PCB194 | 1.8 µg/kg | 1.8J µg/kg | | | |
| PCB195 | 0.66 µg/kg | 0.66J µg/kg | | | |
| PCB201 | 0.37 µg/kg | 0.37J µg/kg | | | |
| PCB206 | 0.73 µg/kg | 0.73J µg/kg | | | |

| Sample ID | Parameter | Analyte | Reported Result | Qualified Result | Reason |
|----------------------|--------------|-----------------|-----------------|------------------|---|
| | Pesticides | 2,4'-DDD | 0.27 µg/kg | 0.27J µg/kg | LCS or LCSD %R below control limit |
| | | 2,4'-DDE | 5.4 µg/kg | 5.4J µg/kg | |
| | | 4,4'-DDD | 2.2 µg/kg | 2.2J µg/kg | |
| | | 4,4'-DDE | 160 µg/kg | 160J µg/kg | |
| | | Alpha Chlordane | 1.0 µg/kg | 1.0J µg/kg | |
| | | Cis-nonachlor | 0.86 µg/kg | 0.86J µg/kg | |
| | | Gamma Chlordane | 0.14J µg/kg | 0.14J µg/kg | |
| | | Oxychlordane | 0.076U µg/kg | 0.076UJ µg/kg | |
| | | Trans-nonachlor | 1.0 µg/kg | 1.0J µg/kg | |
| OB-WO-WS-C2-20141008 | PCBs | PCB018 | 0.16J µg/kg | 0.16J µg/kg | LCSD %R below control limit and/or LCS/LCSD RPD value above control limit |
| | | PCB028 | 1.2 µg/kg | 1.2J µg/kg | |
| | | PCB037 | 0.17J µg/kg | 0.17J µg/kg | |
| | | PCB044 | 0.58 µg/kg | 0.58J µg/kg | |
| | | PCB049 | 2.4 µg/kg | 2.4J µg/kg | |
| | | PCB052 | 2.5 µg/kg | 2.5J µg/kg | |
| | | PCB066 | 2.8 µg/kg | 2.8J µg/kg | |
| | | PCB070 | 2.1 µg/kg | 2.1J µg/kg | |
| | | PCB074 | 1.7 µg/kg | 1.7J µg/kg | |
| | | PCB077 | 0.64 µg/kg | 0.64J µg/kg | |
| | | PCB081 | 0.064U µg/kg | 0.064UJ µg/kg | |
| | | PCB087 | 2.6 µg/kg | 2.6J µg/kg | |
| | | PCB099 | 6.4 µg/kg | 6.4J µg/kg | |
| | | PCB101 | 7.3 µg/kg | 7.3J µg/kg | |
| | | PCB105 | 2.8 µg/kg | 2.8J µg/kg | |
| | | PCB110 | 2.6 µg/kg | 2.6J µg/kg | |
| | | PCB114 | 0.082J µg/kg | 0.082J µg/kg | |
| | | PCB118 | 8.9 µg/kg | 8.9J µg/kg | |
| | | PCB119 | 0.34 µg/kg | 0.34J µg/kg | |
| | | PCB123 | 1.1 µg/kg | 1.1J µg/kg | |
| | | PCB126 | 0.034U µg/kg | 0.034UJ µg/kg | |
| | | PCB128 | 1.8 µg/kg | 1.8J µg/kg | |
| | | PCB132/153 | 20 µg/kg | 20J µg/kg | |
| | | PCB138/158 | 13 µg/kg | 13J µg/kg | |
| | | PCB149 | 3.4 µg/kg | 3.4J µg/kg | |
| | | PCB151 | 1.9 µg/kg | 1.9J µg/kg | |
| | | PCB156 | 0.99 µg/kg | 0.99J µg/kg | |
| | | PCB157 | 0.25 µg/kg | 0.25J µg/kg | |
| PCB167 | 0.65 µg/kg | 0.65J µg/kg | | | |
| PCB168 | 0.045U µg/kg | 0.045UJ µg/kg | | | |
| PCB169 | 0.50 µg/kg | 0.50J µg/kg | | | |
| PCB170 | 3.0 µg/kg | 3.0J µg/kg | | | |
| PCB177 | 1.2 µg/kg | 1.2J µg/kg | | | |
| PCB180 | 7.0 µg/kg | 7.0J µg/kg | | | |

| Sample ID | Parameter | Analyte | Reported Result | Qualified Result | Reason |
|----------------------|------------|-----------------|-----------------|------------------|---|
| | | PCB183 | 2.1 µg/kg | 2.1J µg/kg | |
| | | PCB187 | 5.8 µg/kg | 5.8J µg/kg | |
| | | PCB189 | 0.17J µg/kg | 0.17J µg/kg | |
| | | PCB194 | 1.4 µg/kg | 1.4J µg/kg | |
| | | PCB195 | 0.50 µg/kg | 0.50J µg/kg | |
| | | PCB201 | 0.25 µg/kg | 0.25J µg/kg | |
| | | PCB206 | 0.80 µg/kg | 0.80J µg/kg | |
| | Pesticides | 2,4'-DDD | 0.14J µg/kg | 0.14J µg/kg | LCS or LCSD %R below control limit |
| | | 2,4'-DDE | 5.3 µg/kg | 5.3J µg/kg | |
| | | 4,4'-DDD | 1.9 µg/kg | 1.9J µg/kg | |
| | | 4,4'-DDE | 170 µg/kg | 170J µg/kg | |
| | | Alpha Chlordane | 0.82 µg/kg | 0.82J µg/kg | |
| | | Cis-nonachlor | 0.77 µg/kg | 0.77J µg/kg | |
| | | Gamma Chlordane | 0.11J µg/kg | 0.11J µg/kg | |
| | | Oxychlordane | 0.076U µg/kg | 0.076UJ µg/kg | |
| Trans-nonachlor | 0.97 µg/kg | 0.97J µg/kg | | | |
| OB-WO-WS-C3-20141008 | PCBs | PCB018 | 0.18J µg/kg | 0.18J µg/kg | LCSD %R below control limit and/or LCS/LCSD RPD value above control limit |
| | | PCB028 | 0.88 µg/kg | 0.88J µg/kg | |
| | | PCB037 | 0.071J µg/kg | 0.071J µg/kg | |
| | | PCB044 | 0.31 µg/kg | 0.31J µg/kg | |
| | | PCB049 | 1.6 µg/kg | 1.6J µg/kg | |
| | | PCB052 | 1.9 µg/kg | 1.9J µg/kg | |
| | | PCB066 | 2.1 µg/kg | 2.1J µg/kg | |
| | | PCB070 | 1.5 µg/kg | 1.5J µg/kg | |
| | | PCB074 | 1.3 µg/kg | 1.3J µg/kg | |
| | | PCB077 | 0.45 µg/kg | 0.45J µg/kg | |
| | | PCB081 | 0.064U µg/kg | 0.064UJ µg/kg | |
| | | PCB087 | 2.3 µg/kg | 2.3J µg/kg | |
| | | PCB099 | 5.2 µg/kg | 5.2J µg/kg | |
| | | PCB101 | 6.0 µg/kg | 6.0J µg/kg | |
| | | PCB105 | 2.5 µg/kg | 2.5J µg/kg | |
| | | PCB110 | 2.1 µg/kg | 2.1J µg/kg | |
| | | PCB114 | 0.036U µg/kg | 0.036UJ µg/kg | |
| | | PCB118 | 8.1 µg/kg | 8.1J µg/kg | |
| | | PCB119 | 0.26 µg/kg | 0.26J µg/kg | |
| | | PCB123 | 1.0 µg/kg | 1.0J µg/kg | |
| | | PCB126 | 0.034U µg/kg | 0.034UJ µg/kg | |
| | | PCB128 | 1.5 µg/kg | 1.5J µg/kg | |
| | | PCB132/153 | 17 µg/kg | 17J µg/kg | |
| PCB138/158 | 11 µg/kg | 11J µg/kg | | | |
| PCB149 | 1.9 µg/kg | 1.9J µg/kg | | | |
| PCB151 | 1.5 µg/kg | 1.5J µg/kg | | | |
| PCB156 | 0.97 µg/kg | 0.97J µg/kg | | | |

| Sample ID | Parameter | Analyte | Reported Result | Qualified Result | Reason |
|----------------------|----------------------|-----------------|-----------------|------------------|---|
| | | PCB157 | 0.20 µg/kg | 0.20J µg/kg | |
| | | PCB167 | 0.56 µg/kg | 0.56J µg/kg | |
| | | PCB168 | 0.045U µg/kg | 0.045UJ µg/kg | |
| | | PCB169 | 0.24 µg/kg | 0.24J µg/kg | |
| | | PCB170 | 2.1 µg/kg | 2.1J µg/kg | |
| | | PCB177 | 0.70 µg/kg | 0.70J µg/kg | |
| | | PCB180 | 4.5 µg/kg | 4.5J µg/kg | |
| | | PCB183 | 1.4 µg/kg | 1.4J µg/kg | |
| | | PCB187 | 3.5 µg/kg | 3.5J µg/kg | |
| | | PCB189 | 0.12J µg/kg | 0.12J µg/kg | |
| | | PCB194 | 0.66 µg/kg | 0.66J µg/kg | |
| | | PCB195 | 0.25 µg/kg | 0.25J µg/kg | |
| | | PCB201 | 0.13J µg/kg | 0.13J µg/kg | |
| | | PCB206 | 0.32 µg/kg | 0.32J µg/kg | |
| | Pesticides | 2,4'-DDD | 0.28 µg/kg | 0.28J µg/kg | LCS or LCSD %R below control limit |
| | | 2,4'-DDE | 1.7 µg/kg | 1.7J µg/kg | |
| | | 4,4'-DDD | 0.99 µg/kg | 0.99J µg/kg | |
| | | 4,4'-DDE | 86 µg/kg | 86J µg/kg | |
| | | Alpha Chlordane | 0.40 µg/kg | 0.40J µg/kg | |
| | | Cis-nonachlor | 0.48 µg/kg | 0.48J µg/kg | |
| | | Gamma Chlordane | 0.049J µg/kg | 0.049J µg/kg | |
| | | Oxychlordane | 0.076U µg/kg | 0.076UJ µg/kg | |
| | SP-FF-CH-C1-20141008 | Pesticides | 2,4'-DDD | 0.049U µg/kg | 0.049UJ µg/kg |
| 2,4'-DDE | | | 0.33 µg/kg | 0.33J µg/kg | |
| 2,4'-DDT | | | 0.032U µg/kg | 0.032UJ µg/kg | |
| 4,4'-DDD | | | 0.15J µg/kg | 0.15J µg/kg | |
| 4,4'-DDE | | | 6.7 µg/kg | 6.7J µg/kg | |
| 4,4'-DDT | | | 0.081U µg/kg | 0.081UJ µg/kg | |
| Alpha Chlordane | | | 0.14J µg/kg | 0.14J µg/kg | |
| Cis-nonachlor | | | 0.17J µg/kg | 0.17J µg/kg | |
| Dieldrin | | | 0.090U µg/kg | 0.090UJ µg/kg | |
| Gamma Chlordane | | | 0.046U µg/kg | 0.046UJ µg/kg | |
| Oxychlordane | | | 0.076U µg/kg | 0.076UJ µg/kg | |
| Trans-nonachlor | | | 0.23 µg/kg | 0.23J µg/kg | |
| SP-FF-WC-C1-20141008 | PCBs | PCB018 | 0.94 µg/kg | 0.94J µg/kg | LCSD %R below control limit and/or LCS/LCSD RPD value above control limit |
| | | PCB028 | 3.2 µg/kg | 3.2J µg/kg | |
| | | PCB037 | 0.035U µg/kg | 0.035UJ µg/kg | |
| | | PCB044 | 3.7 µg/kg | 3.7J µg/kg | |
| | | PCB049 | 4.7 µg/kg | 4.7J µg/kg | |
| | | PCB052 | 4.7 µg/kg | 4.7J µg/kg | |
| | | PCB066 | 5.3 µg/kg | 5.3J µg/kg | |
| | | PCB070 | 4.0 µg/kg | 4.0J µg/kg | |

| Sample ID | Parameter | Analyte | Reported Result | Qualified Result | Reason |
|-----------------|-----------------|--------------|-----------------|------------------------------------|---------------|
| | | PCB074 | 3.1 µg/kg | 3.1J µg/kg | |
| | | PCB077 | 0.79 µg/kg | 0.79J µg/kg | |
| | | PCB081 | 0.064U µg/kg | 0.064UJ µg/kg | |
| | | PCB087 | 3.3 µg/kg | 3.3J µg/kg | |
| | | PCB099 | 6.6 µg/kg | 6.6J µg/kg | |
| | | PCB101 | 8.9 µg/kg | 8.9J µg/kg | |
| | | PCB105 | 3.2 µg/kg | 3.2J µg/kg | |
| | | PCB110 | 6.7 µg/kg | 6.7J µg/kg | |
| | | PCB114 | 0.21 µg/kg | 0.21J µg/kg | |
| | | PCB118 | 9.1 µg/kg | 9.1J µg/kg | |
| | | PCB119 | 0.38 µg/kg | 0.38J µg/kg | |
| | | PCB123 | 1.1 µg/kg | 1.1J µg/kg | |
| | | PCB126 | 0.034U µg/kg | 0.034UJ µg/kg | |
| | | PCB128 | 1.9 µg/kg | 1.9J µg/kg | |
| | | PCB132/153 | 17 µg/kg | 17J µg/kg | |
| | | PCB138/158 | 12 µg/kg | 12J µg/kg | |
| | | PCB149 | 5.7 µg/kg | 5.7J µg/kg | |
| | | PCB151 | 1.7 µg/kg | 1.7J µg/kg | |
| | | PCB156 | 0.85 µg/kg | 0.85J µg/kg | |
| | | PCB157 | 0.23 µg/kg | 0.23J µg/kg | |
| | | PCB167 | 0.52 µg/kg | 0.52J µg/kg | |
| | | PCB168 | 0.045U µg/kg | 0.045UJ µg/kg | |
| | | PCB169 | 0.43 µg/kg | 0.43J µg/kg | |
| | | PCB170 | 2.5 µg/kg | 2.5J µg/kg | |
| | | PCB177 | 1.1 µg/kg | 1.1J µg/kg | |
| | | PCB180 | 5.3 µg/kg | 5.3J µg/kg | |
| | | PCB183 | 1.5 µg/kg | 1.5J µg/kg | |
| | | PCB187 | 4.3 µg/kg | 4.3J µg/kg | |
| | | PCB189 | 0.10J µg/kg | 0.10J µg/kg | |
| | | PCB194 | 1.1 µg/kg | 1.1J µg/kg | |
| | PCB195 | 0.35 µg/kg | 0.35J µg/kg | | |
| | PCB201 | 0.18J µg/kg | 0.18J µg/kg | | |
| | PCB206 | 0.60 µg/kg | 0.60J µg/kg | | |
| Pesticides | 2,4'-DDD | 0.28 µg/kg | 0.28J µg/kg | LCS or LCSD %R below control limit | |
| | 2,4'-DDE | 5.6 µg/kg | 5.6J µg/kg | | |
| | 4,4'-DDD | 3.6 µg/kg | 3.6J µg/kg | | |
| | 4,4'-DDE | 86 µg/kg | 86J µg/kg | | |
| | Alpha Chlordane | 2.7 µg/kg | 2.7J µg/kg | | |
| | Cis-nonachlor | 2.2 µg/kg | 2.2J µg/kg | | |
| | Gamma Chlordane | 1.3 µg/kg | 1.3J µg/kg | | |
| | Oxychlordane | 0.076U µg/kg | 0.076UJ µg/kg | | |
| Trans-nonachlor | 2.7 µg/kg | 2.7J µg/kg | | | |
| SP-FF-WC- | PCBs | PCB018 | 0.63 µg/kg | 0.63J µg/kg | LCSD %R below |

| Sample ID | Parameter | Analyte | Reported Result | Qualified Result | Reason |
|-------------|--------------|--------------|-----------------|------------------------------------|---|
| C2-20141008 | | PCB028 | 1.8 µg/kg | 1.8J µg/kg | control limit and/or LCS/LCSD RPD value above control limit |
| | | PCB037 | 0.035U µg/kg | 0.035UJ µg/kg | |
| | | PCB044 | 2.3 µg/kg | 2.3J µg/kg | |
| | | PCB049 | 2.7 µg/kg | 2.7J µg/kg | |
| | | PCB052 | 3.1 µg/kg | 3.1J µg/kg | |
| | | PCB066 | 2.8 µg/kg | 2.8J µg/kg | |
| | | PCB070 | 2.1 µg/kg | 2.1J µg/kg | |
| | | PCB074 | 1.5 µg/kg | 1.5J µg/kg | |
| | | PCB077 | 0.45 µg/kg | 0.45J µg/kg | |
| | | PCB081 | 0.064U µg/kg | 0.064UJ µg/kg | |
| | | PCB087 | 1.6 µg/kg | 1.6J µg/kg | |
| | | PCB099 | 2.9 µg/kg | 2.9J µg/kg | |
| | | PCB101 | 4.2 µg/kg | 4.2J µg/kg | |
| | | PCB105 | 1.4 µg/kg | 1.4J µg/kg | |
| | | PCB110 | 3.4 µg/kg | 3.4J µg/kg | |
| | | PCB114 | 0.038J µg/kg | 0.038J µg/kg | |
| | | PCB118 | 3.6 µg/kg | 3.6J µg/kg | |
| | | PCB119 | 0.19J µg/kg | 0.19J µg/kg | |
| | | PCB123 | 0.46 µg/kg | 0.46J µg/kg | |
| | | PCB126 | 0.034U µg/kg | 0.034UJ µg/kg | |
| | | PCB128 | 0.85 µg/kg | 0.85J µg/kg | |
| | | PCB132/153 | 6.5 µg/kg | 6.5J µg/kg | |
| | | PCB138/158 | 4.9 µg/kg | 4.9J µg/kg | |
| | | PCB149 | 2.7 µg/kg | 2.7J µg/kg | |
| | | PCB151 | 0.77 µg/kg | 0.77J µg/kg | |
| | | PCB156 | 0.36 µg/kg | 0.36J µg/kg | |
| | | PCB157 | 0.11J µg/kg | 0.11J µg/kg | |
| | | PCB167 | 0.042U µg/kg | 0.042UJ µg/kg | |
| | | PCB168 | 0.045U µg/kg | 0.045UJ µg/kg | |
| | | PCB169 | 0.16J µg/kg | 0.16J µg/kg | |
| | | PCB170 | 0.98 µg/kg | 0.98J µg/kg | |
| | | PCB177 | 0.49 µg/kg | 0.49J µg/kg | |
| | | PCB180 | 2.0 µg/kg | 2.0J µg/kg | |
| PCB183 | 0.57 µg/kg | 0.57J µg/kg | | | |
| PCB187 | 1.7 µg/kg | 1.7J µg/kg | | | |
| PCB189 | 0.042J µg/kg | 0.042J µg/kg | | | |
| PCB194 | 0.46 µg/kg | 0.46J µg/kg | | | |
| PCB195 | 0.15J µg/kg | 0.15J µg/kg | | | |
| PCB201 | 0.10J µg/kg | 0.10J µg/kg | | | |
| PCB206 | 0.29 µg/kg | 0.29J µg/kg | | | |
| Pesticides | 2,4'-DDD | 0.17J µg/kg | 0.17J µg/kg | LCS or LCSD %R below control limit | |
| | 2,4'-DDE | 2.7 µg/kg | 2.7J µg/kg | | |
| | 4,4'-DDD | 1.7 µg/kg | 1.7J µg/kg | | |

| Sample ID | Parameter | Analyte | Reported Result | Qualified Result | Reason |
|--------------------------|--------------|-----------------|-----------------|------------------|---|
| | | 4,4'-DDE | 29 µg/kg | 29J µg/kg | |
| | | Alpha Chlordane | 1.7 µg/kg | 1.7J µg/kg | |
| | | Cis-nonachlor | 1.0 µg/kg | 1.0J µg/kg | |
| | | Gamma Chlordane | 0.78 µg/kg | 0.78J µg/kg | |
| | | Oxychlordane | 0.076U µg/kg | 0.076UJ µg/kg | |
| | | Trans-nonachlor | 1.4 µg/kg | 1.4J µg/kg | |
| SP-FF-WC- C3-20141008 | PCBs | PCB018 | 1.6 µg/kg | 1.6J µg/kg | LCSD %R below control limit and/or LCS/LCSD RPD value above control limit |
| | | PCB028 | 4.2 µg/kg | 4.2J µg/kg | |
| | | PCB037 | 0.035U µg/kg | 0.035UJ µg/kg | |
| | | PCB044 | 5.2 µg/kg | 5.2J µg/kg | |
| | | PCB049 | 6.6 µg/kg | 6.6J µg/kg | |
| | | PCB052 | 6.6 µg/kg | 6.6J µg/kg | |
| | | PCB066 | 6.4 µg/kg | 6.4J µg/kg | |
| | | PCB070 | 5.2 µg/kg | 5.2J µg/kg | |
| | | PCB074 | 3.9 µg/kg | 3.9J µg/kg | |
| | | PCB077 | 0.93 µg/kg | 0.93J µg/kg | |
| | | PCB081 | 0.064U µg/kg | 0.064UJ µg/kg | |
| | | PCB087 | 3.6 µg/kg | 3.6J µg/kg | |
| | | PCB099 | 7.4 µg/kg | 7.4J µg/kg | |
| | | PCB101 | 10 µg/kg | 10J µg/kg | |
| | | PCB105 | 3.7 µg/kg | 3.7J µg/kg | |
| | | PCB110 | 8.0 µg/kg | 8.0J µg/kg | |
| | | PCB114 | 0.23 µg/kg | 0.23J µg/kg | |
| | | PCB118 | 9.4 µg/kg | 9.4J µg/kg | |
| | | PCB119 | 0.41 µg/kg | 0.41J µg/kg | |
| | | PCB123 | 1.1 µg/kg | 1.1J µg/kg | |
| | | PCB126 | 0.034U µg/kg | 0.034UJ µg/kg | |
| | | PCB128 | 1.9 µg/kg | 1.9J µg/kg | |
| | | PCB132/153 | 16 µg/kg | 16J µg/kg | |
| | | PCB138/158 | 12 µg/kg | 12J µg/kg | |
| | | PCB149 | 6.2 µg/kg | 6.2J µg/kg | |
| | | PCB151 | 1.8 µg/kg | 1.8J µg/kg | |
| | | PCB156 | 0.83 µg/kg | 0.83J µg/kg | |
| | | PCB157 | 0.21 µg/kg | 0.21J µg/kg | |
| | | PCB167 | 0.52 µg/kg | 0.52J µg/kg | |
| | | PCB168 | 0.045U µg/kg | 0.045UJ µg/kg | |
| PCB169 | 0.42 µg/kg | 0.42J µg/kg | | | |
| PCB170 | 2.3 µg/kg | 2.3J µg/kg | | | |
| PCB177 | 1.1 µg/kg | 1.1J µg/kg | | | |
| PCB180 | 4.9 µg/kg | 4.9J µg/kg | | | |
| PCB183 | 1.4 µg/kg | 1.4J µg/kg | | | |
| PCB187 | 4.3 µg/kg | 4.3J µg/kg | | | |
| PCB189 | 0.074J µg/kg | 0.074J µg/kg | | | |

| Sample ID | Parameter | Analyte | Reported Result | Qualified Result | Reason |
|-----------------------|---------------|-------------------|-----------------|------------------|---|
| | | PCB194 | 0.97 µg/kg | 0.97J µg/kg | LCS or LCSD %R below control limit |
| | | PCB195 | 0.40 µg/kg | 0.40J µg/kg | |
| | | PCB201 | 0.19J µg/kg | 0.19J µg/kg | |
| | | PCB206 | 0.57 µg/kg | 0.57J µg/kg | |
| | Pesticides | 2,4'-DDD | 0.21 µg/kg | 0.21J µg/kg | |
| | | 2,4'-DDE | 5.6 µg/kg | 5.6J µg/kg | |
| | | 4,4'-DDD | 3.2 µg/kg | 3.2J µg/kg | |
| | | 4,4'-DDE | 54 µg/kg | 54J µg/kg | |
| | | Alpha Chlordane | 2.5 µg/kg | 2.5J µg/kg | |
| | | Cis-nonachlor | 1.8 µg/kg | 1.8J µg/kg | |
| | | Gamma Chlordane | 1.4 µg/kg | 1.4J µg/kg | |
| | | Oxychlordane | 0.076U µg/kg | 0.076UJ µg/kg | |
| | | Trans-nonachlor | 2.3 µg/kg | 2.3J µg/kg | |
| SP-RW-18-G-B-20141102 | Conventionals | TSS | 1.5 mg/L | 1.5J mg/L | Lab duplicate result outside of control limit |
| SP-RW-18-G-M-20141102 | Conventionals | TSS | 2.6 mg/L | 2.6J mg/L | Lab duplicate result outside of control limit |
| SP-RW-18-G-S-20140926 | Metals | Dissolved cadmium | 0.0535B µg/L | 0.0535U µg/L | Method blank contamination |
| | | Dissolved lead | 0.0618B µg/L | 0.0618U µg/L | |
| | | Total cadmium | 0.0482B µg/L | 0.0482U µg/L | |
| | | Dissolved copper | 0.666 µg/L | 0.666J µg/L | MS/MSD %R above control limit |
| | | Total copper | 0.766 µg/L | 0.766J µg/L | |
| SP-RW-18-G-S-20141102 | Conventionals | TSS | 4.3 mg/L | 4.3J mg/L | Lab duplicate result outside of control limit |
| | Metals | Total lead | 1.29 µg/L | 1.29J µg/L | MS %R below control limit |
| | | Total chromium | 0.439J µg/L | 0.439J µg/L | MSD %R above control limit |
| SP-RW-19-G-B-20141102 | Conventionals | TSS | 1.0 mg/L | 1.0J mg/L | Lab duplicate result outside of control limit |
| SP-RW-19-G-M-20141102 | Conventionals | TSS | 1.2 mg/L | 1.2J mg/L | Lab duplicate result outside of control limit |
| SP-RW-19-G-S-20140926 | Metals | Dissolved cadmium | 0.0384B µg/L | 0.0384U µg/L | Method blank contamination |
| | | Total cadmium | 0.0429B µg/L | 0.0429U µg/L | Method blank contamination |
| | | Dissolved copper | 0.389 µg/L | 0.389J µg/L | MS/MSD %R above control limit |
| | | Total copper | 0.581 µg/L | 0.581J µg/L | |
| SP-RW-19-G-S-20141102 | Conventionals | TSS | 1.8 mg/L | 1.8J mg/L | Lab duplicate result outside of |

| Sample ID | Parameter | Analyte | Reported Result | Qualified Result | Reason |
|-----------------------|---------------|-------------------|-----------------|------------------|---|
| | | | | | control limit |
| | Metals | Dissolved mercury | 0.000649B µg/L | 0.000649U µg/L | Method blank contamination |
| | | Total lead | 0.372 µg/L | 0.372J µg/L | MS %R below control limit |
| | | Total chromium | 0.302J µg/L | 0.302J µg/L | MSD %R above control limit |
| SP-RW-20-G-B-20141102 | Conventionals | TSS | 1.5 mg/L | 1.5J mg/L | Lab duplicate result outside of control limit |
| SP-RW-20-G-M-20141102 | Conventionals | TSS | 1.0 mg/L | 1.0J mg/L | Lab duplicate result outside of control limit |
| SP-RW-20-G-S-20140926 | Metals | Dissolved cadmium | 0.0468B µg/L | 0.0468U µg/L | Method blank contamination |
| | | Total cadmium | 0.0424B µg/L | 0.0424U µg/L | Method blank contamination |
| | | Dissolved copper | 0.420 µg/L | 0.420J µg/L | MS/MSD %R above control limit |
| | | Total copper | 0.495 µg/L | 0.495J µg/L | |
| SP-RW-20-G-S-20141102 | Conventionals | TSS | 1.3 mg/L | 1.3J mg/L | Lab duplicate result outside of control limit |
| | Metals | Dissolved mercury | 0.000688B µg/L | 0.000688U µg/L | Method blank contamination |
| | | Total lead | 0.434 µg/L | 0.434J µg/L | MS %R below control limit |
| | | Total chromium | 0.323J µg/L | 0.323J µg/L | MSD %R above control limit |
| SP-WO-PP-C3-20141008 | PCBs | PCB018 | 1.0 µg/kg | 1.0J µg/kg | LCSD %R below control limit and/or LCS/LCSD RPD value above control limit |
| | | PCB028 | 1.2 µg/kg | 1.2J µg/kg | |
| | | PCB037 | 0.035U µg/kg | 0.035UJ µg/kg | |
| | | PCB044 | 1.6 µg/kg | 1.6J µg/kg | |
| | | PCB049 | 2.1 µg/kg | 2.1J µg/kg | |
| | | PCB052 | 2.4 µg/kg | 2.4J µg/kg | |
| | | PCB066 | 1.9 µg/kg | 1.9J µg/kg | |
| | | PCB070 | 1.5 µg/kg | 1.5J µg/kg | |
| | | PCB074 | 1.1 µg/kg | 1.1J µg/kg | |
| | | PCB077 | 0.37 µg/kg | 0.37J µg/kg | |
| | | PCB081 | 0.064U µg/kg | 0.064UJ µg/kg | |
| | | PCB087 | 1.4 µg/kg | 1.4J µg/kg | |
| | | PCB099 | 2.2 µg/kg | 2.2J µg/kg | |
| | | PCB101 | 3.4 µg/kg | 3.4J µg/kg | |
| | | PCB105 | 0.93 µg/kg | 0.93J µg/kg | |
| PCB110 | 2.7 µg/kg | 2.7J µg/kg | | | |
| PCB114 | 0.076J µg/kg | 0.076J µg/kg | | | |

| Sample ID | Parameter | Analyte | Reported Result | Qualified Result | Reason |
|-----------|------------|-----------------|-----------------|------------------|--|
| | | PCB118 | 2.5 µg/kg | 2.5J µg/kg | |
| | | PCB119 | 0.11J µg/kg | 0.11J µg/kg | |
| | | PCB123 | 0.37 µg/kg | 0.37J µg/kg | |
| | | PCB126 | 0.034U µg/kg | 0.034UJ µg/kg | |
| | | PCB128 | 0.62 µg/kg | 0.62J µg/kg | |
| | | PCB132/153 | 4.8 µg/kg | 4.8J µg/kg | |
| | | PCB138/158 | 3.3 µg/kg | 3.3J µg/kg | |
| | | PCB149 | 2.0 µg/kg | 2.0J µg/kg | |
| | | PCB151 | 0.58 µg/kg | 0.58J µg/kg | |
| | | PCB156 | 0.19J µg/kg | 0.19J µg/kg | |
| | | PCB157 | 0.077J µg/kg | 0.077J µg/kg | |
| | | PCB167 | 0.042U µg/kg | 0.042UJ µg/kg | |
| | | PCB168 | 0.045U µg/kg | 0.045UJ µg/kg | |
| | | PCB169 | 0.057J µg/kg | 0.057J µg/kg | |
| | | PCB170 | 0.43 µg/kg | 0.43J µg/kg | |
| | | PCB177 | 0.32 µg/kg | 0.32J µg/kg | |
| | | PCB180 | 0.86 µg/kg | 0.86J µg/kg | |
| | | PCB183 | 0.34 µg/kg | 0.34J µg/kg | |
| | | PCB187 | 0.96 µg/kg | 0.96J µg/kg | |
| | | PCB189 | 0.037J µg/kg | 0.037J µg/kg | |
| | | PCB194 | 0.13J µg/kg | 0.13J µg/kg | |
| | | PCB195 | 0.074J µg/kg | 0.074J µg/kg | |
| | | PCB201 | 0.048J µg/kg | 0.048J µg/kg | |
| | | PCB206 | 0.069J µg/kg | 0.069J µg/kg | |
| | Pesticides | 2,4'-DDD | 0.34 µg/kg | 0.34J µg/kg | LCS or LCSD %R below control limit |
| | | 2,4'-DDE | 4.8 µg/kg | 4.8J µg/kg | |
| | | 4,4'-DDD | 1.8 µg/kg | 1.8J µg/kg | |
| | | 4,4'-DDE | 34 µg/kg | 34J µg/kg | |
| | | Alpha Chlordane | 1.6 µg/kg | 1.6J µg/kg | |
| | | Cis-nonachlor | 0.91 µg/kg | 0.91J µg/kg | |
| | | Gamma Chlordane | 1.0 µg/kg | 1.0J µg/kg | |
| | | Oxychlordane | 0.076U µg/kg | 0.076UJ µg/kg | |
| | | Trans-nonachlor | 1.3 µg/kg | 1.3J µg/kg | |

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